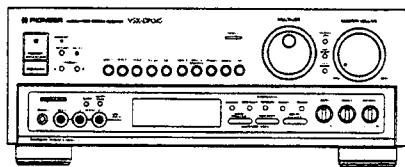




# Service Manual



• The above illustration shows VSX-D704S.

ORDER NO.  
**RRV1237**

AUDIO/VIDEO STEREO RECEIVER

# VSX-D704S VSX-79

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-D704S	VSX-79		
KU	○	—	AC120V	—
KC	○	—	AC120V	—
SD	○	—	AC110V/120–127V/220V/240V	With the voltage selector
KU/CA	—	○	AC120V	—

## CONTENTS

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## 1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

### WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

### NOTICE

#### (FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

### REMARQUE

#### (POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

#### (FOR USA MODEL ONLY)

### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.

**ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.**

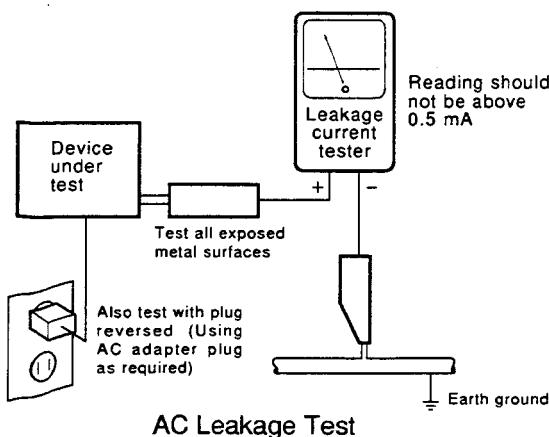
### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.



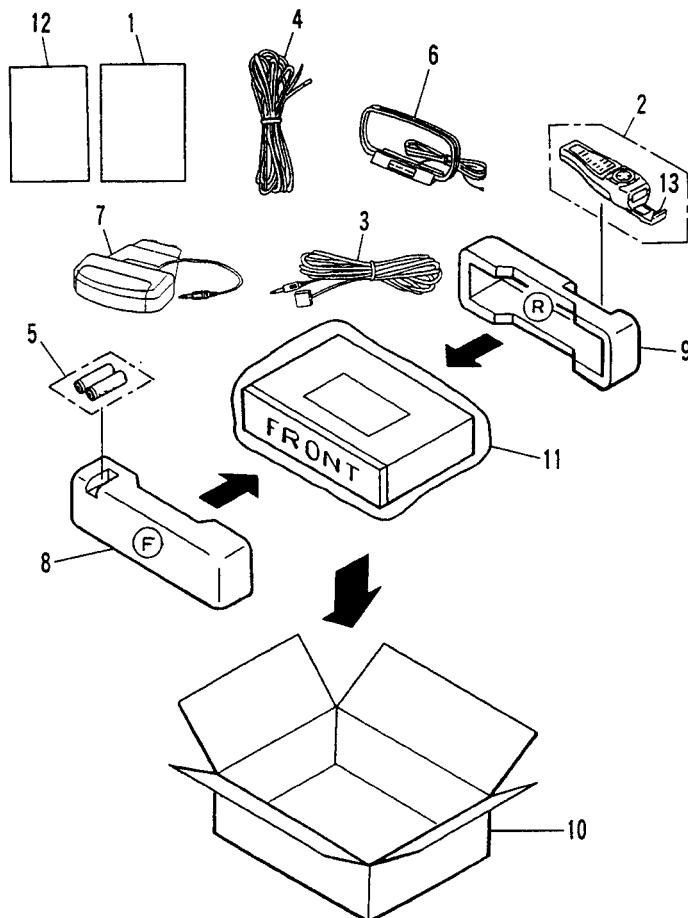
## 2. EXPLODED VIEWS, PACKING AND PARTS LIST

### NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

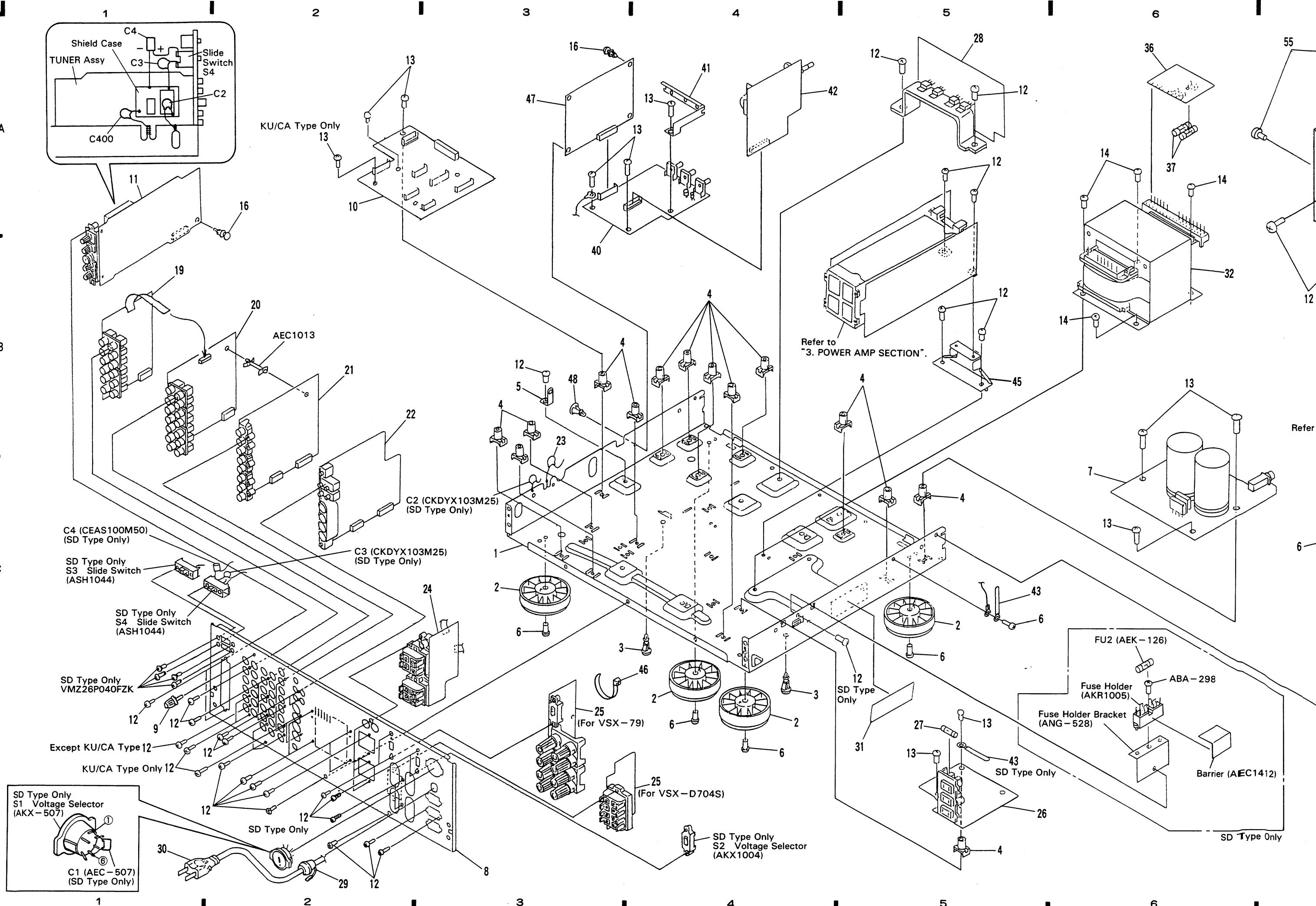
### 2.1 PACKING (for VSX-D704S/KU)

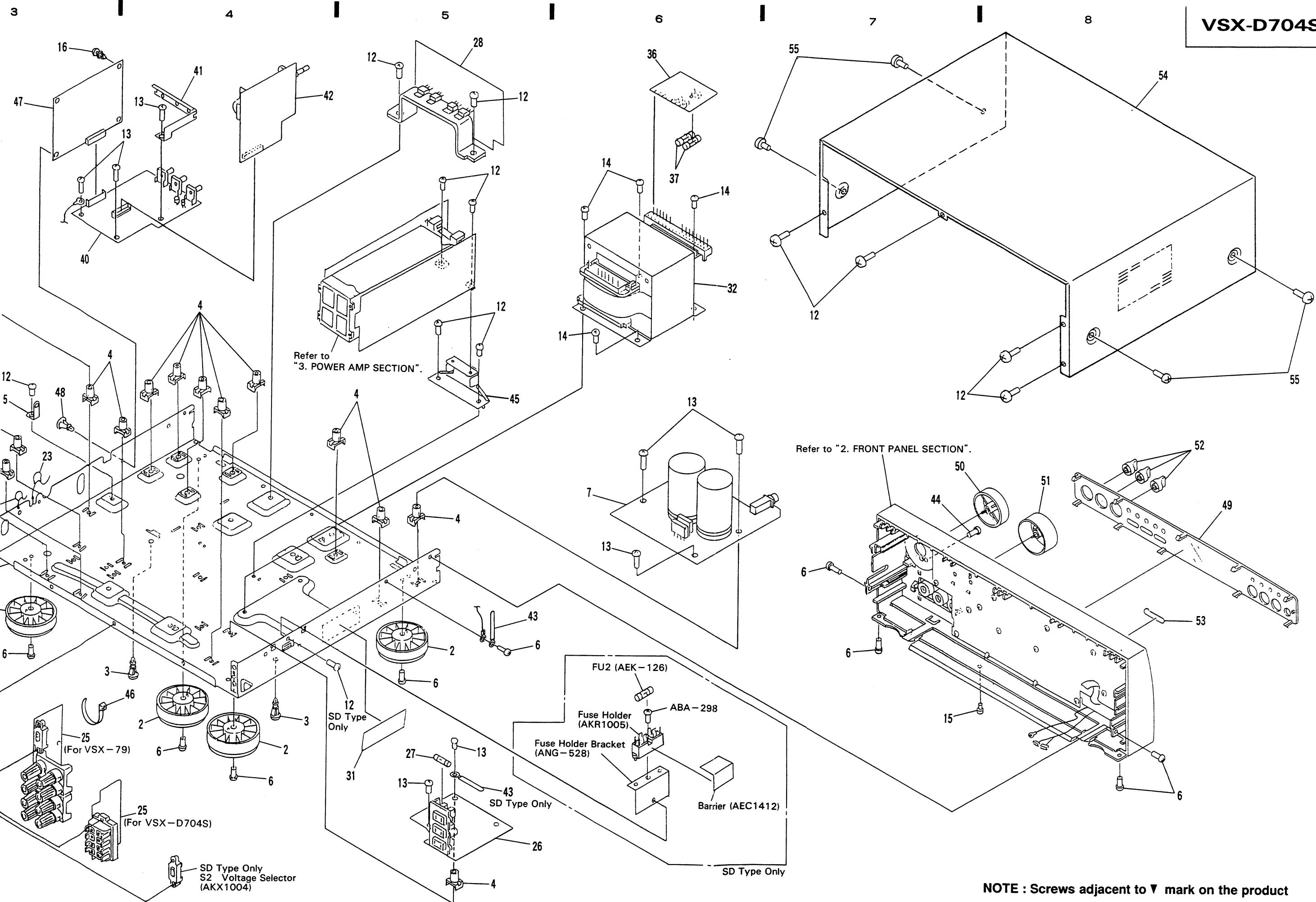
Mark	No.	Description	Parts No.
	1	OPERATING INSTRUCTIONS (English)	ARB7035
	2	REMOTE CONTROL UNIT (CU-VSX097)	AXD7055
	3	MINI REPEATER	ADF1002
	4	FM ANTENNA	ADH1004
NSP	5	BATTERY (R6P, AA)	AEX-010
	6	LOOP ANTENNA ASSY	ATB1005
	7	MAIN REPEATER	AXF1079
	8	FRONT PAD	AHA7056
	9	REAR PAD	AHA7057
	10	PACKING CASE	AHD7138
	11	PACKING SHEET	AHG1021
	12	ATTENTION SHEET (READ BEFORE USING) (English/French/Spanish/Chinese)	ARM7007
	13	BATTERY COVER	AZN7187



**2.2 EXPLODED VIEWS (for VSX-D704S/KU)****1. EXTERIOR**

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	CHASSIS	ANA7018		51	VOLUME KNOB	AAB2225
	2	FOOT ASSY	AMR2414		52	BALANCE KNOB	AAB2226
NSP	3	PCB HOLDER	AEC1097		53	BADGE	AAM1058
NSP	4	PCB MOLD	AMR1525		54	BONNET	ANE7067
	5	L TYPE HOLDER	ANG1903		55	SCREW	FBT40P060FZK
	6	SCREW	ABA1009				
	7	POWER SUPPLY ASSY	AWZ7619				
	8	REAR PANEL	ANC7194				
	9	TERMINAL SCREW	AKE-031				
	10	CONNECTION ASSY	AWZ7630				
NSP	11	TUNER ASSY	AWE1140				
	12	SCREW	ABA-298				
	13	SCREW	ABA1018				
	14	SCREW	ABA1053				
	15	SCREW	BPZ30P060FZK				
	16	RIVET	AMR1066				
	17	.....					
	18	.....					
	19	AUDIO FUNCTION ASSY	AWZ7634				
	20	A/V FUNCTION ASSY	AWZ7636				
	21	VIDEO FUNCTION ASSY	AWZ7638				
	22	S+SR, MR, IR ASSY	AWZ7645				
	23	CAPACITOR (C400)	CKDYF102Z50				
NSP	24	R.C SP. ASSY	AWZ7626				
NSP	25	FRONT SP. ASSY	AWZ7623				
▲	26	PRIM ASSY	AWZ7620				
▲	27	FUSE (10A/125V, FU1)	AEK1035				
▲	28	REG. ASSY	AWZ7617				
▲	29	STRAIN RELIEF	AEP-113				
▲	30	AC POWER CORD	ADG1146				
▲	31	65 LABEL	ORW1069				
▲	32	POWER TRANSFORMER (AC120V, T1)	ATS7058				
	33	.....					
	34	.....					
	35	.....					
NSP	36	TRANS ASSY	AWZ7622				
▲	37	FUSE (3.15A/125V, FU3, FU4)	AEK-124				
	38	.....					
	39	.....					
	40	TONE ASSY	AWZ7642				
	41	VOLUME HOLDER	ANG1902				
	42	VOLUME ASSY	AWZ7616				
	43	BINDER	AEP-215				
	44	SCREW	VMZ30P060FCU				
NSP	45	MOLD HOLDER	ANG7021				
	46	BINDER	AEC-093				
	47	DOL. PRO. MOD. 1020	AXQ1022				
	48	PCB HOLDER	AEC1534				
	49	DISPLAY PANEL	AAK7147				
	50	JOG DIAL	AAB2224				

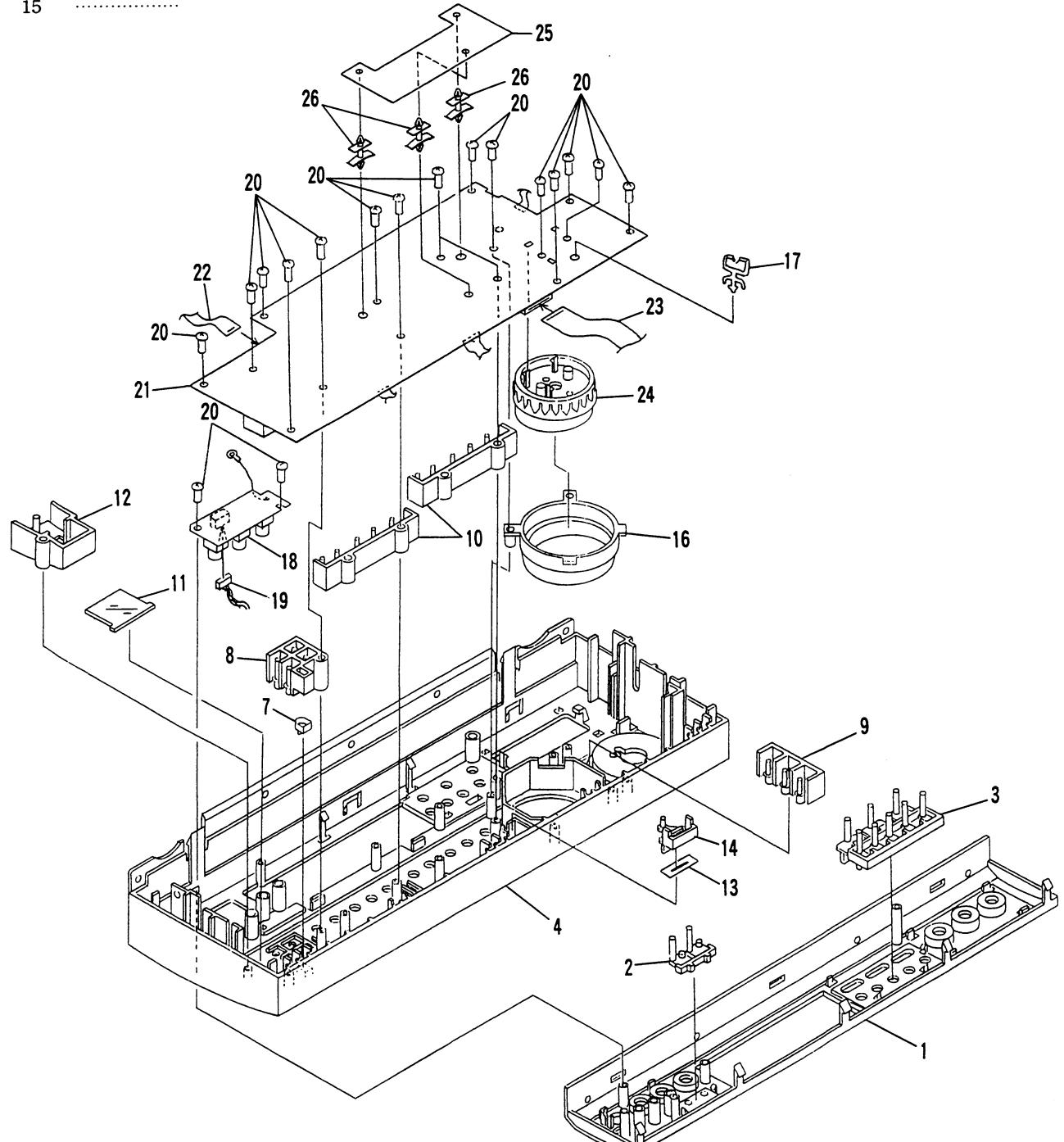




**NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.**

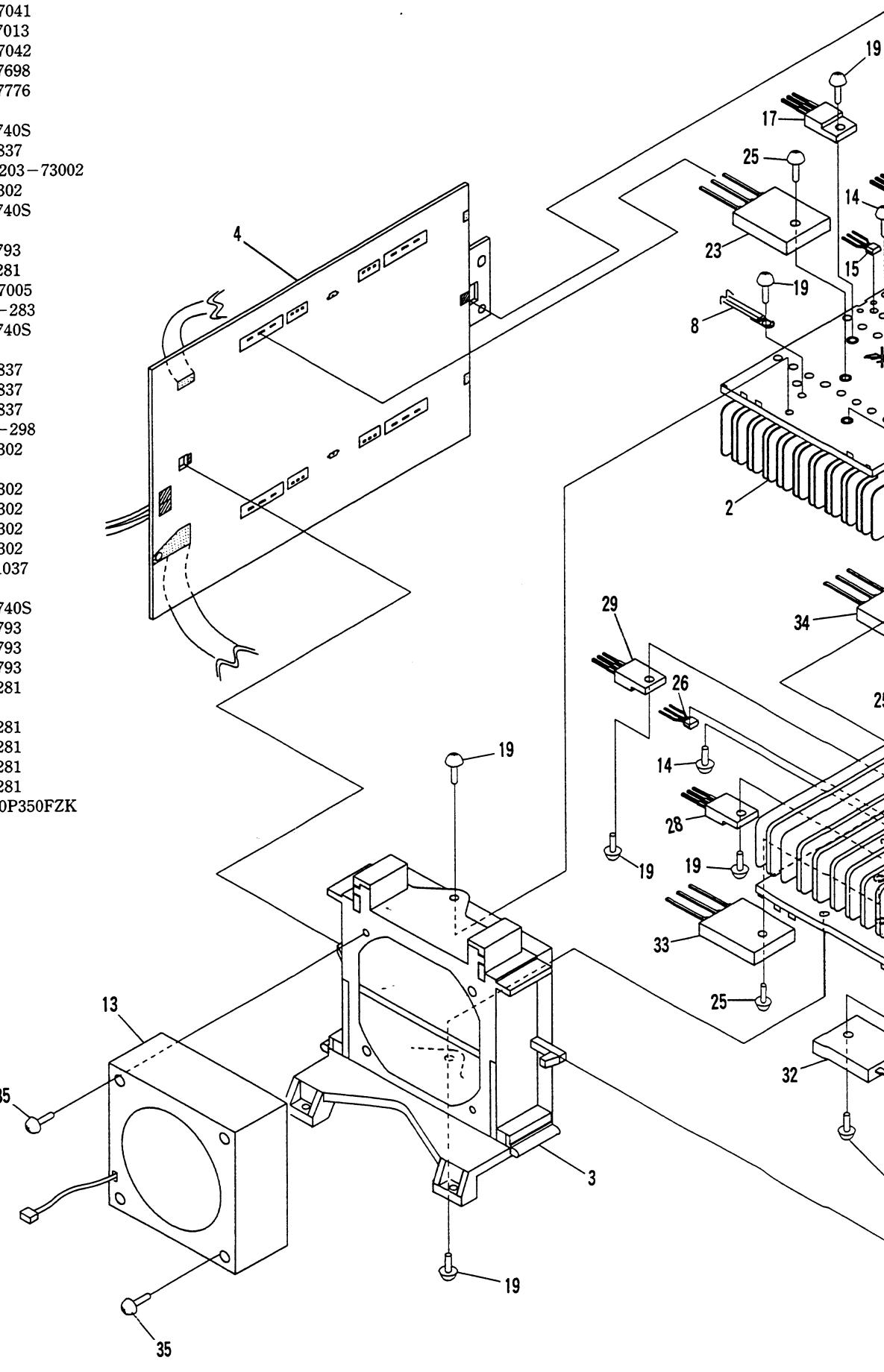
## 2. FRONT PANEL SECTION

Mark	No.	Description	Parts No.
A	1	CENTER PANEL	AAK7152
	2	GUI MODE BUTTON	AAD4048
	3	TX BUTTON	AAD4050
	4	FRONT PANEL	AMB7209
	5	.....	.....
	6	.....	.....
	7	LED LENS	PNW2019
	8	ASC BUTTON	AAD4049
	9	MUTE BUTTON	AAD4047
	10	FUNCTION BUTTON	AAD2470
NSP	11	IR FILTER	AAK2575
	12	POWER BUTTON	AAD4052
	13	SHEET	AED1160
	14	BUTTON B	AAD2472
	15	.....	.....



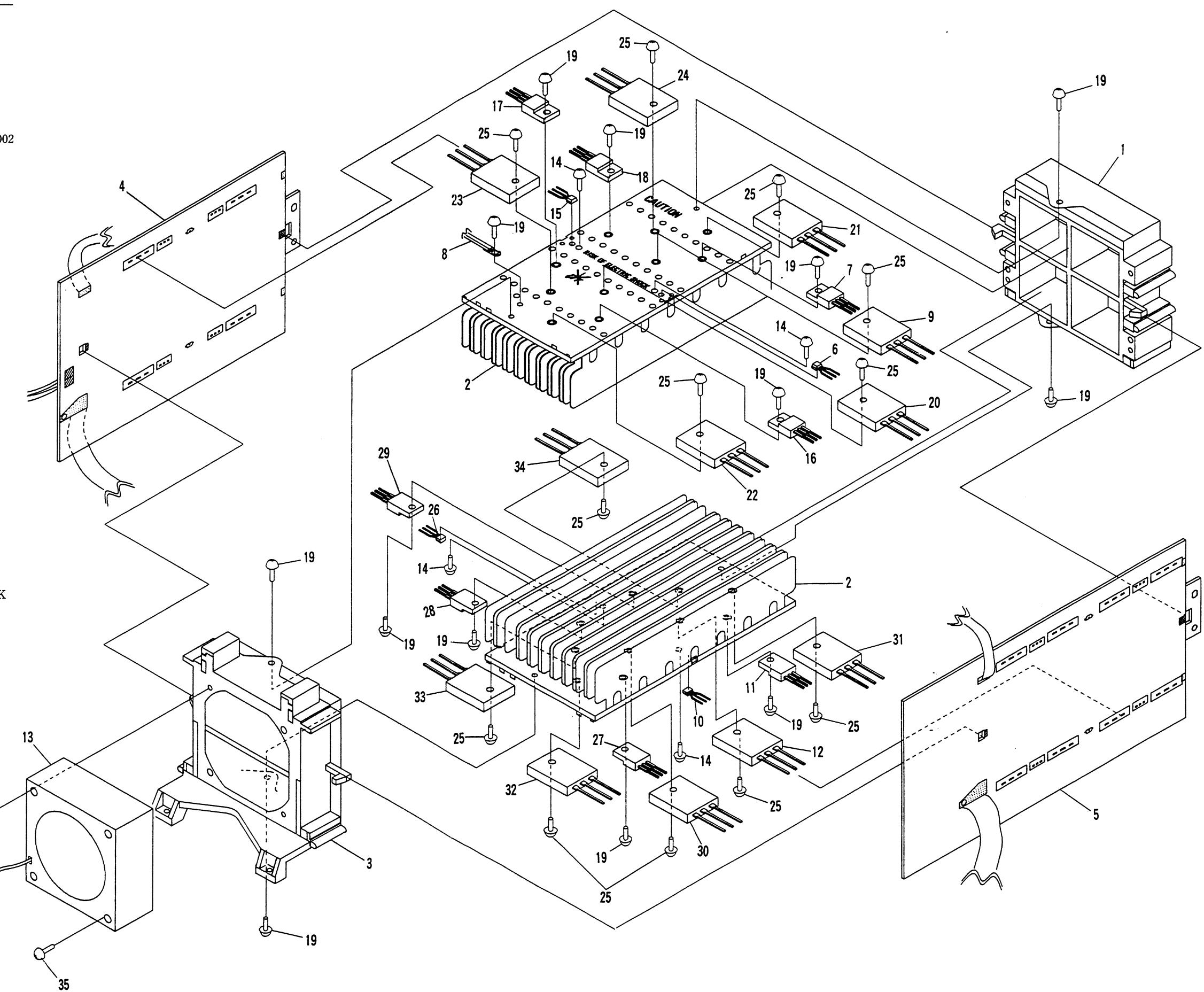
## 3. POWER AMP SECTION

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	16	RING	AAK2586	NSP	1	MOLD A	AMR7041
	17	WIRE CRI	AEC1535		2	RADIATOR	ANH7013
NSP	18	VIDEO ASSY	AWZ7654		3	MOLD B	AMR7042
NSP	19	HOUSING 5P (J3)	ADX2096		4	AMP ASSY C, S FAN_CN	AWZ7698
	20	SCREW	BPZ26P080FMC		5	AMP ASSY 200W	AWZ7776
	21	FL UCOM ASSY	AWZ7649	▲	6	TRANSISTOR (Q209)	2SC1740S
	22	FLEXIBLE FLAT CABLE (J1)	ADD1114	▲	7	TRANSISTOR (Q23)	2SA1837
	23	FLEXIBLE FLAT CABLE (J2)	ADD1134	▲	8	THERMISTOR (TH1)	150-203-73002
	24	ESCUTCHEON	AAK2585	▲	9	TRANSISTOR (Q3)	2SA1302
	25	LOGIC ASSY	AWZ7651	▲	10	TRANSISTOR (Q210)	2SC1740S
NSP	26	PCB SPACER	BEC1049	▲	11	TRANSISTOR (Q21)	2SC4793
				▲	12	TRANSISTOR (Q1)	2SC3281
				▲	13	FAN MOTOR	AXM7005
				▲	14	SCREW	ABA-283
				▲	15	TRANSISTOR (Q309)	2SC1740S
				▲	16	TRANSISTOR (Q24)	2SA1837
				▲	17	TRANSISTOR (Q33)	2SA1837
				▲	18	TRANSISTOR (Q34)	2SA1837
				▲	19	SCREW	ABA-298
				▲	20	TRANSISTOR (Q4)	2SA1302
				▲	21	TRANSISTOR (Q7)	2SA1302
				▲	22	TRANSISTOR (Q8)	2SA1302
				▲	23	TRANSISTOR (Q11)	2SA1302
				▲	24	TRANSISTOR (Q12)	2SA1302
				▲	25	SCREW	ABA1037
				▲	26	TRANSISTOR (Q310)	2SC1740S
				▲	27	TRANSISTOR (Q22)	2SC4793
				▲	28	TRANSISTOR (Q31)	2SC4793
				▲	29	TRANSISTOR (Q32)	2SC4793
				▲	30	TRANSISTOR (Q2)	2SC3281
				▲	31	TRANSISTOR (Q5)	2SC3281
				▲	32	TRANSISTOR (Q6)	2SC3281
				▲	33	TRANSISTOR (Q9)	2SC3281
				▲	34	TRANSISTOR (Q10)	2SC3281
					35	SCREW	BPZ30P350FZK



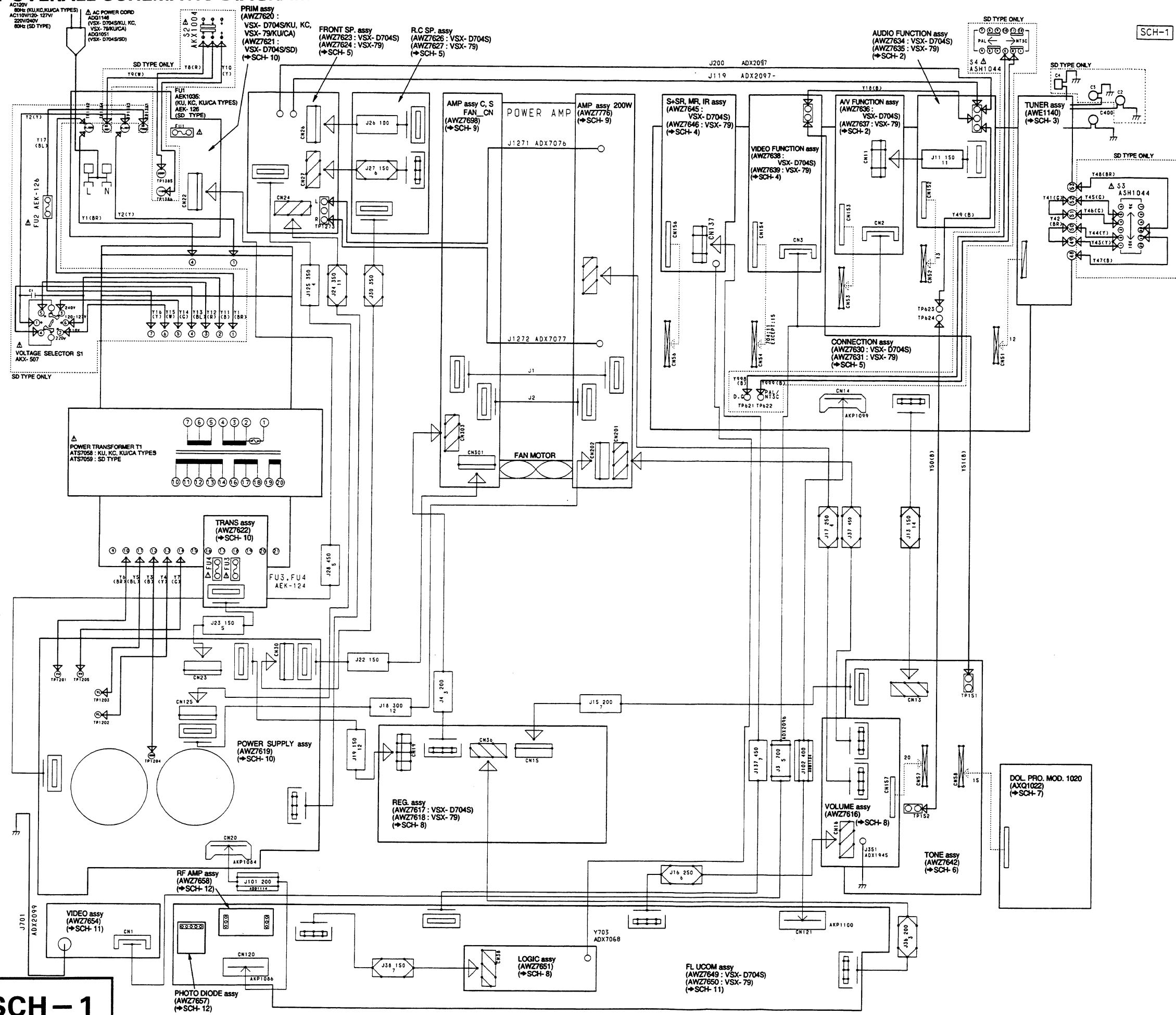
## 3. POWER AMP SECTION

No.	Mark	No.	Description	Parts No.
586	NSP	1	MOLD A	AMR7041
135		2	RADIATOR	ANH7013
654		3	MOLD B	AMR7042
196		4	AMP ASSY C, S FAN_CN	AWZ7698
P080FMC		5	AMP ASSY 200W	AWZ7776
649	△	6	TRANSISTOR (Q209)	2SC1740S
114	△	7	TRANSISTOR (Q23)	2SA1837
134	△	8	THERMISTOR (TH1)	150-203-73002
585	△	9	TRANSISTOR (Q3)	2SA1302
651	△	10	TRANSISTOR (Q210)	2SC1740S
149	△	11	TRANSISTOR (Q21)	2SC4793
12	△	12	TRANSISTOR (Q1)	2SC3281
13	△	13	FAN MOTOR	AXM7005
14	△	14	SCREW	ABA-283
15	△	15	TRANSISTOR (Q309)	2SC1740S
16	△	16	TRANSISTOR (Q24)	2SA1837
17	△	17	TRANSISTOR (Q33)	2SA1837
18	△	18	TRANSISTOR (Q34)	2SA1837
19	△	19	SCREW	ABA-298
20	△	20	TRANSISTOR (Q4)	2SA1302
21	△	21	TRANSISTOR (Q7)	2SA1302
22	△	22	TRANSISTOR (Q8)	2SA1302
23	△	23	TRANSISTOR (Q11)	2SA1302
24	△	24	TRANSISTOR (Q12)	2SA1302
25	△	25	SCREW	ABA1037
26	△	26	TRANSISTOR (Q310)	2SC1740S
27	△	27	TRANSISTOR (Q22)	2SC4793
28	△	28	TRANSISTOR (Q31)	2SC4793
29	△	29	TRANSISTOR (Q32)	2SC4793
30	△	30	TRANSISTOR (Q2)	2SC3281
31	△	31	TRANSISTOR (Q5)	2SC3281
32	△	32	TRANSISTOR (Q6)	2SC3281
33	△	33	TRANSISTOR (Q9)	2SC3281
34	△	34	TRANSISTOR (Q10)	2SC3281
35	△	35	SCREW	BPZ30P350FZK

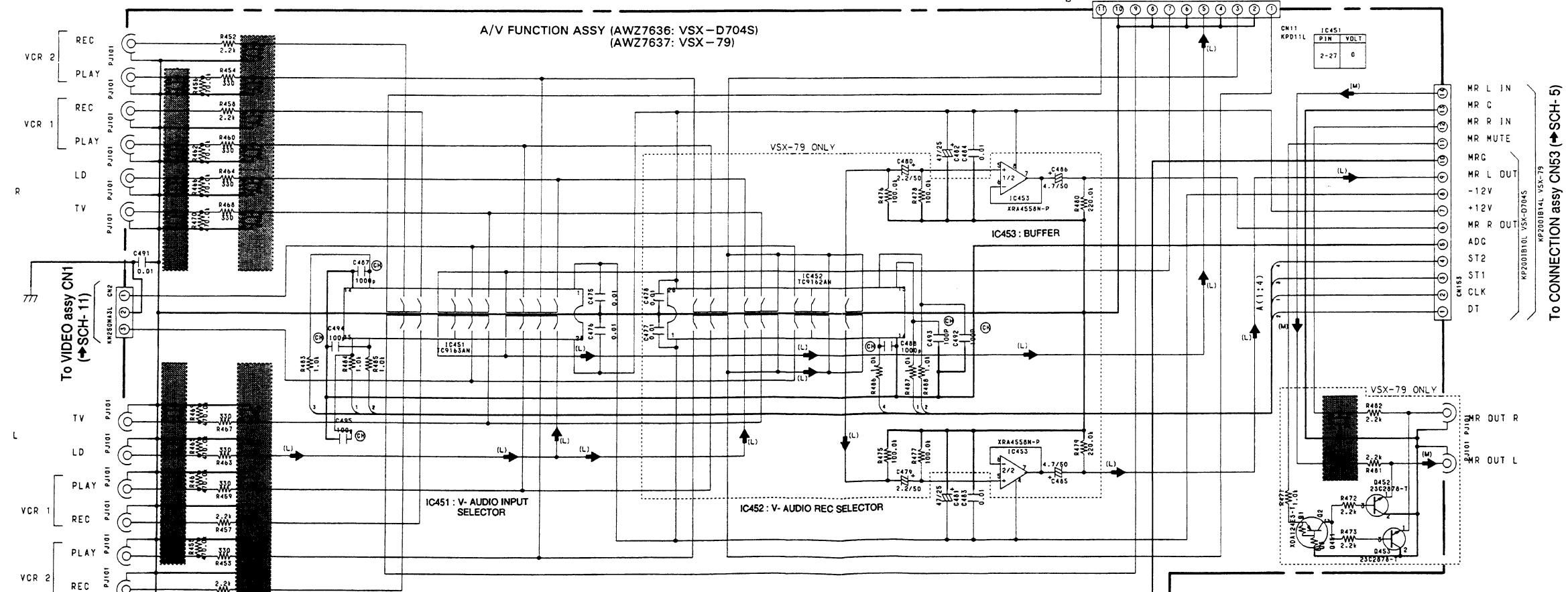
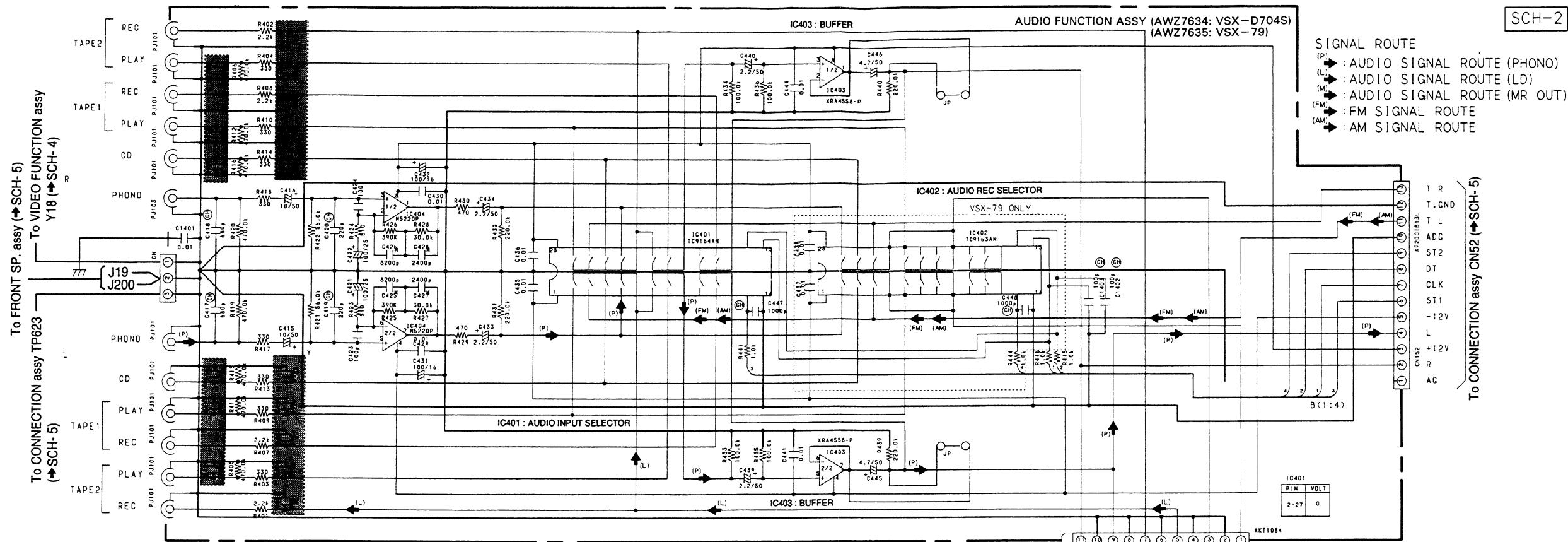


## 3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

## 3.1 OVERALL SCHEMATIC DIAGRAM



## 3.2 AUDIO FUNCTION ASSY AND A/V FUNCTION ASSY

**SCH-2**AUDIO FUNCTION ASSY,  
A/V FUNCTION ASSYNOTE : Sections marked with **█** are not used  
for VSX-D704S and VSX-79.**SCH-2**AUDIO FUNCTION ASSY,  
A/V FUNCTION ASSY

## NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
Q504 E o o Q504	Q504	Transistor
①-D203 o D203	D203	Diode
C513 o N+ o C513	C513	Capacitor (Polarized)

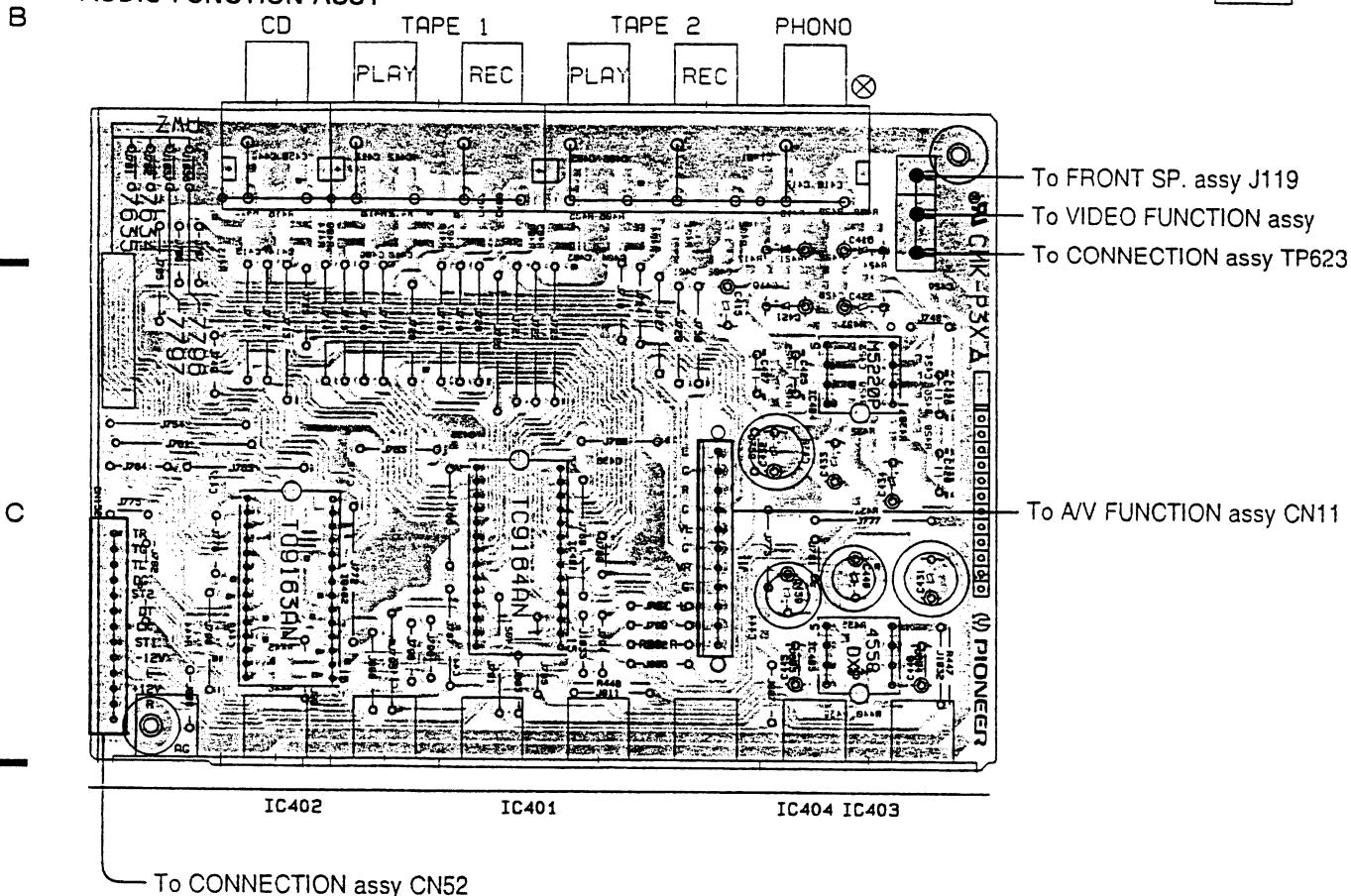
3. The transistor terminal marked with E or  $\square$  shows the emitter.
4. The diode terminal marked with  $\circ$  or C shows cathode side.
5. The capacitor terminal marked with  $\circ$  or  $\square$  shows negative terminal.

The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

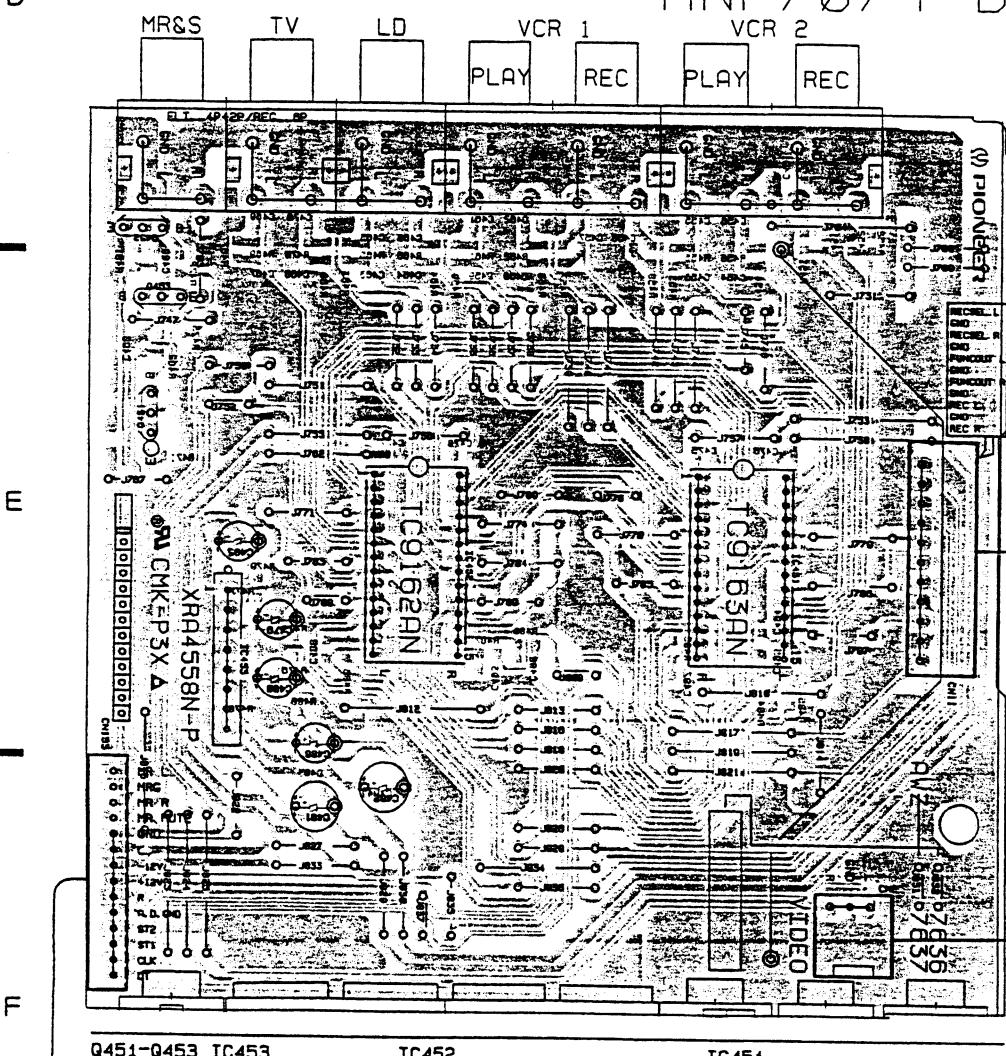
## AUDIO FUNCTION ASSY

PCB-1



## A/V FUNCTION ASSY

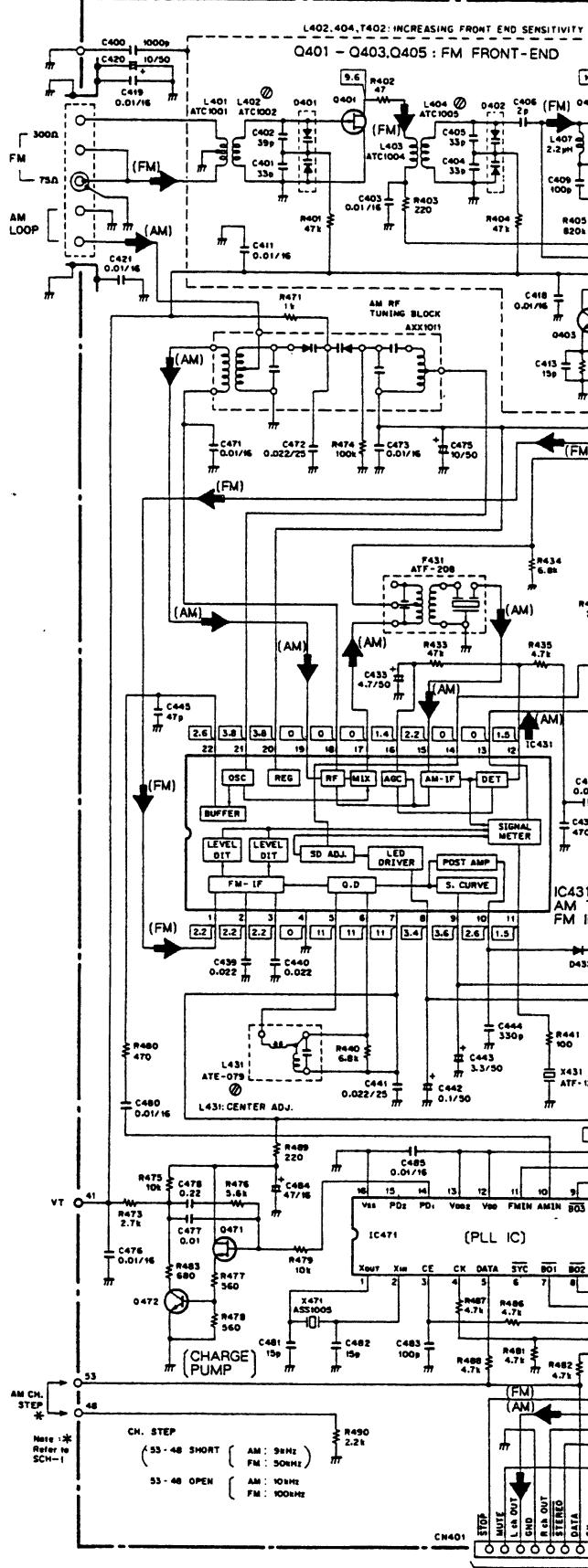
ANP7074-B



• This diagram is viewed from the mounted parts side.

## 3.3 TUNER ASSY

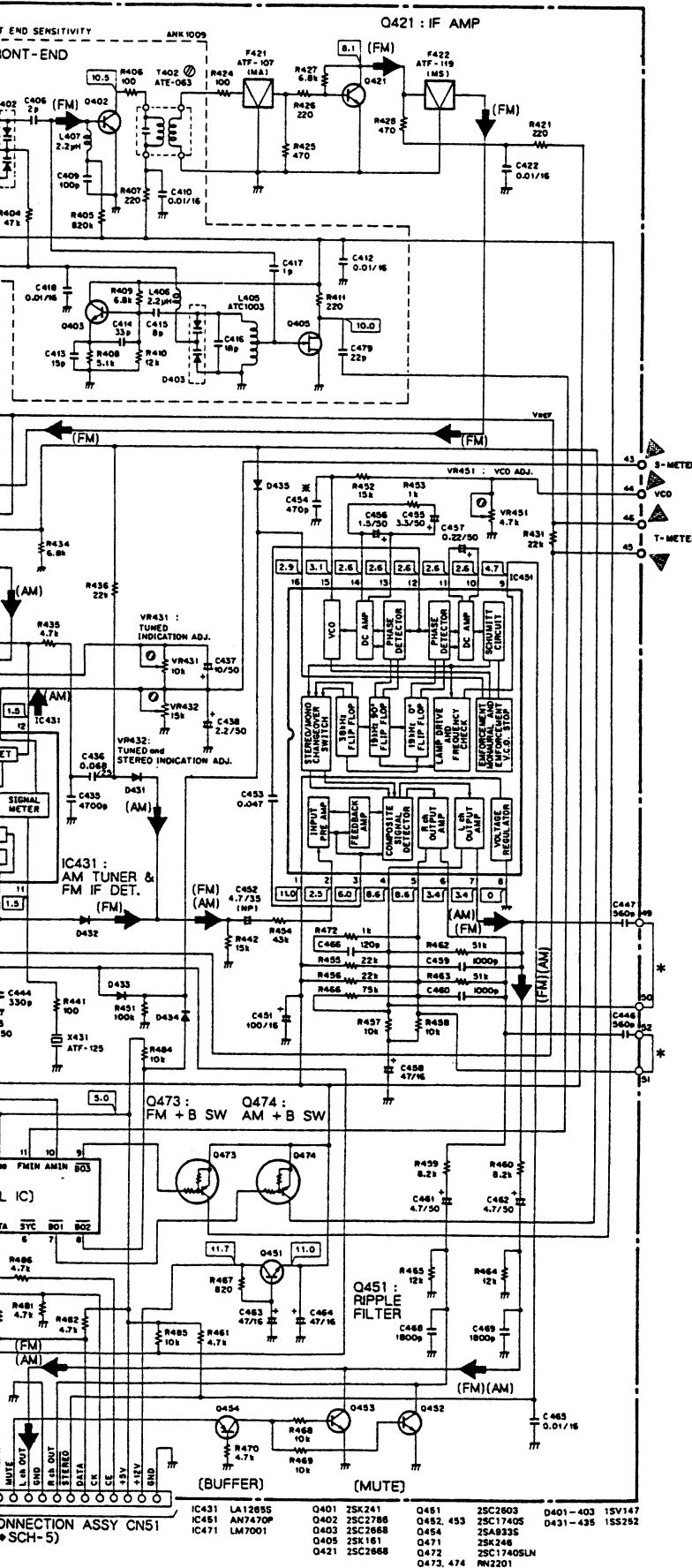
## TUNER ASSY (AWE1140)



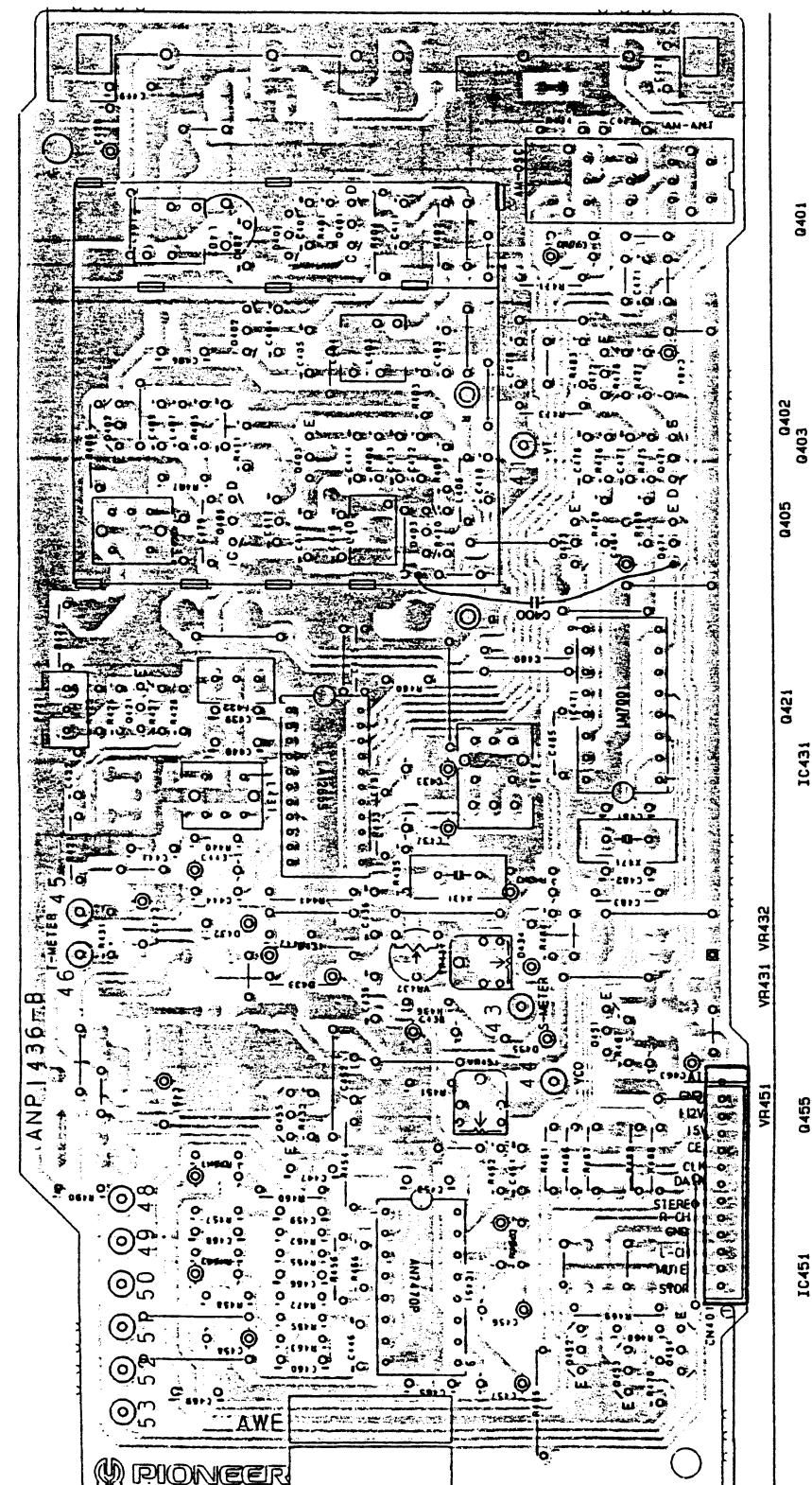
BCB-2

SIGNAL ROUTE

**(FM) → : FM SIGNAL ROUTE**  
**(AM) → : AM SIGNAL ROUTE**



## TUNER ASSY



To CONNECTION assy CN51

### TLINER ASSY

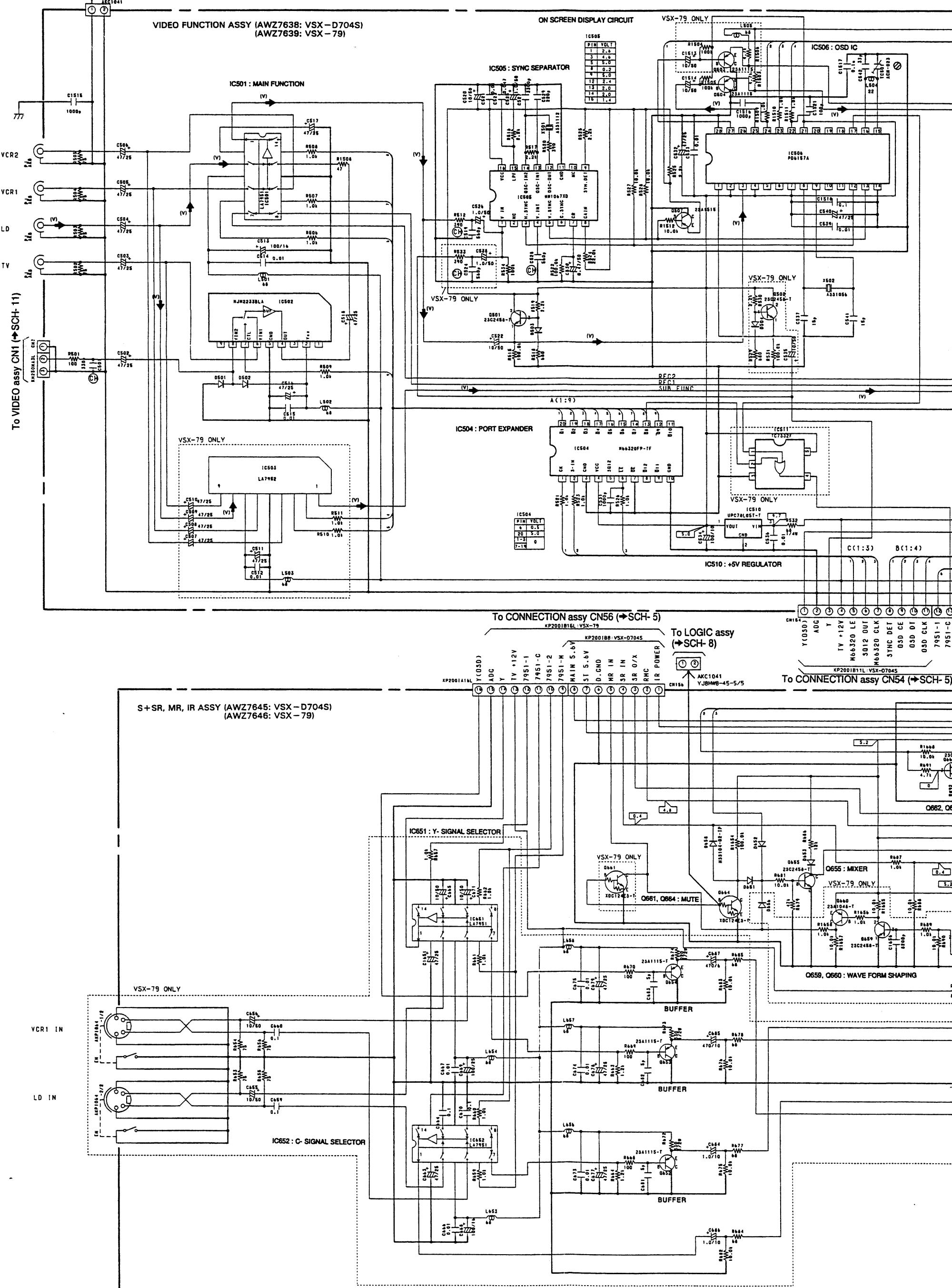
**SCH-3**

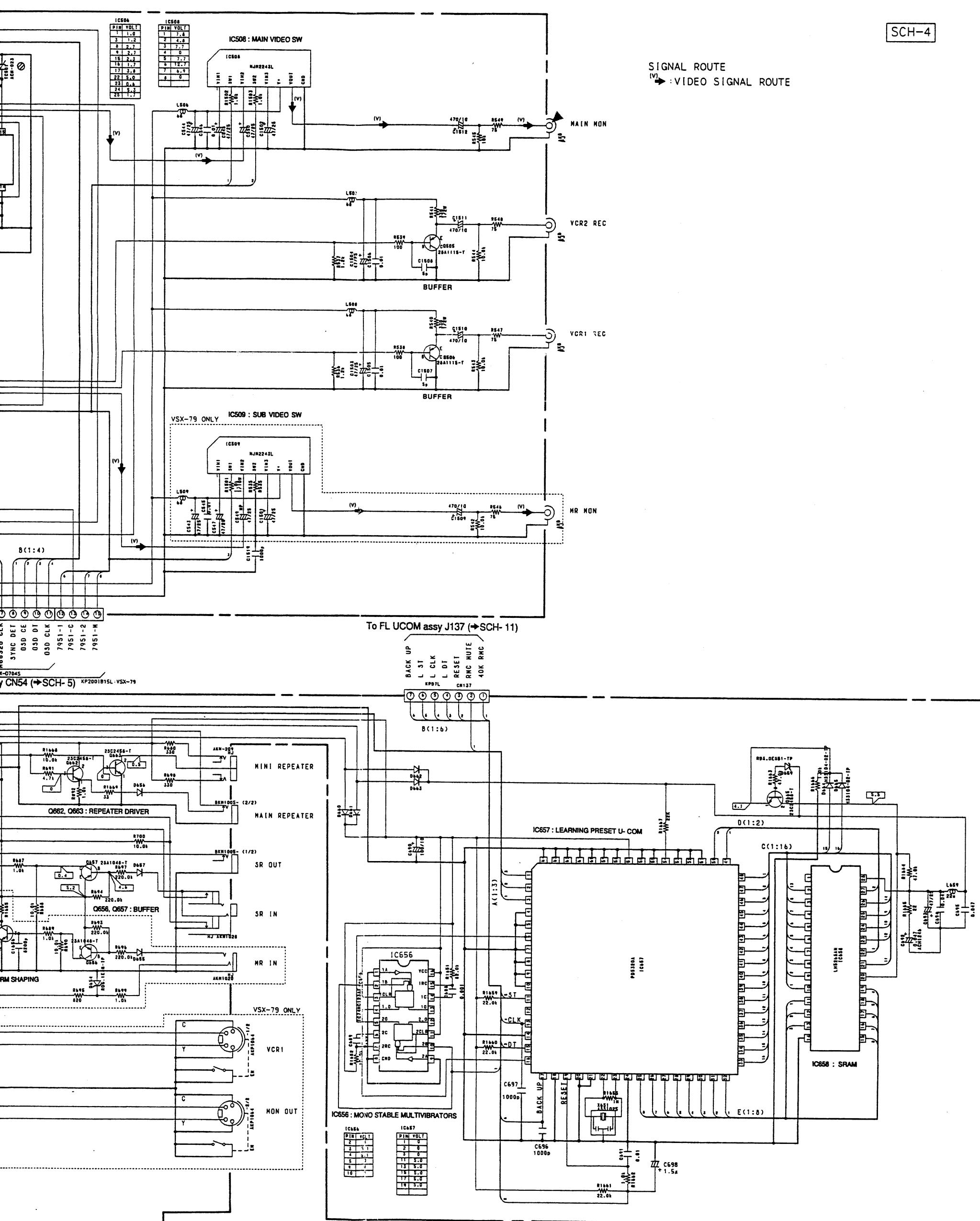
- This diagram is viewed from the mounted parts side.

## 3.4 VIDEO FUNCTION ASSY AND S+SR, MR, IR ASSY

To AUDIO FUNCTION assy  
Y18 (→ SCH-2)

To TONE assy Y51 (→ SCH-6)

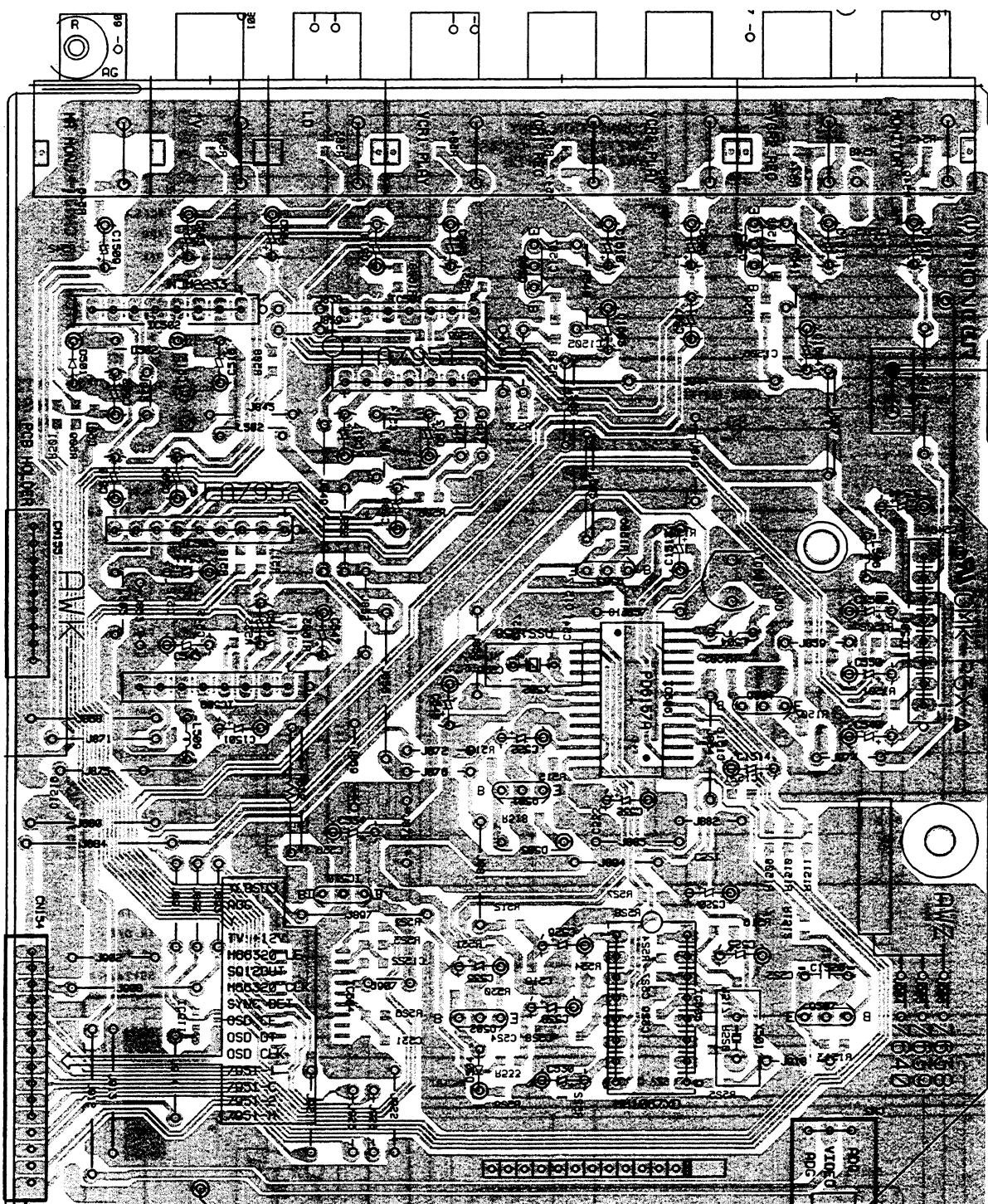




**VIDEO FUNCTION ASSY,  
S+SR, MR, IR ASSY**

**SCH-4**

VIDEO FUNCTION ASSY



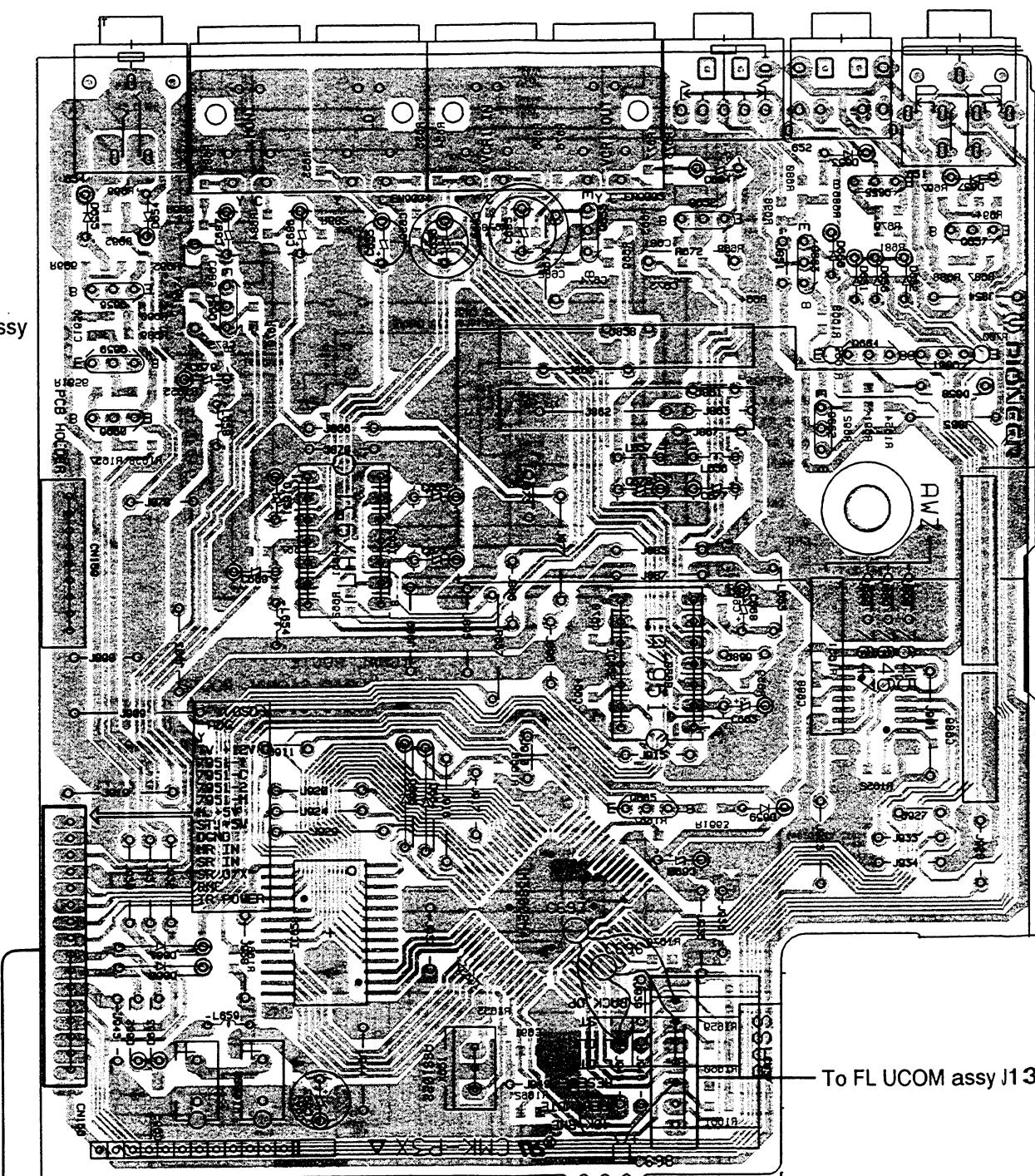
D

To CONNECTION assy CN54

To VIDEO assy CN1

• This diagram is viewed from the  
mounted parts side.

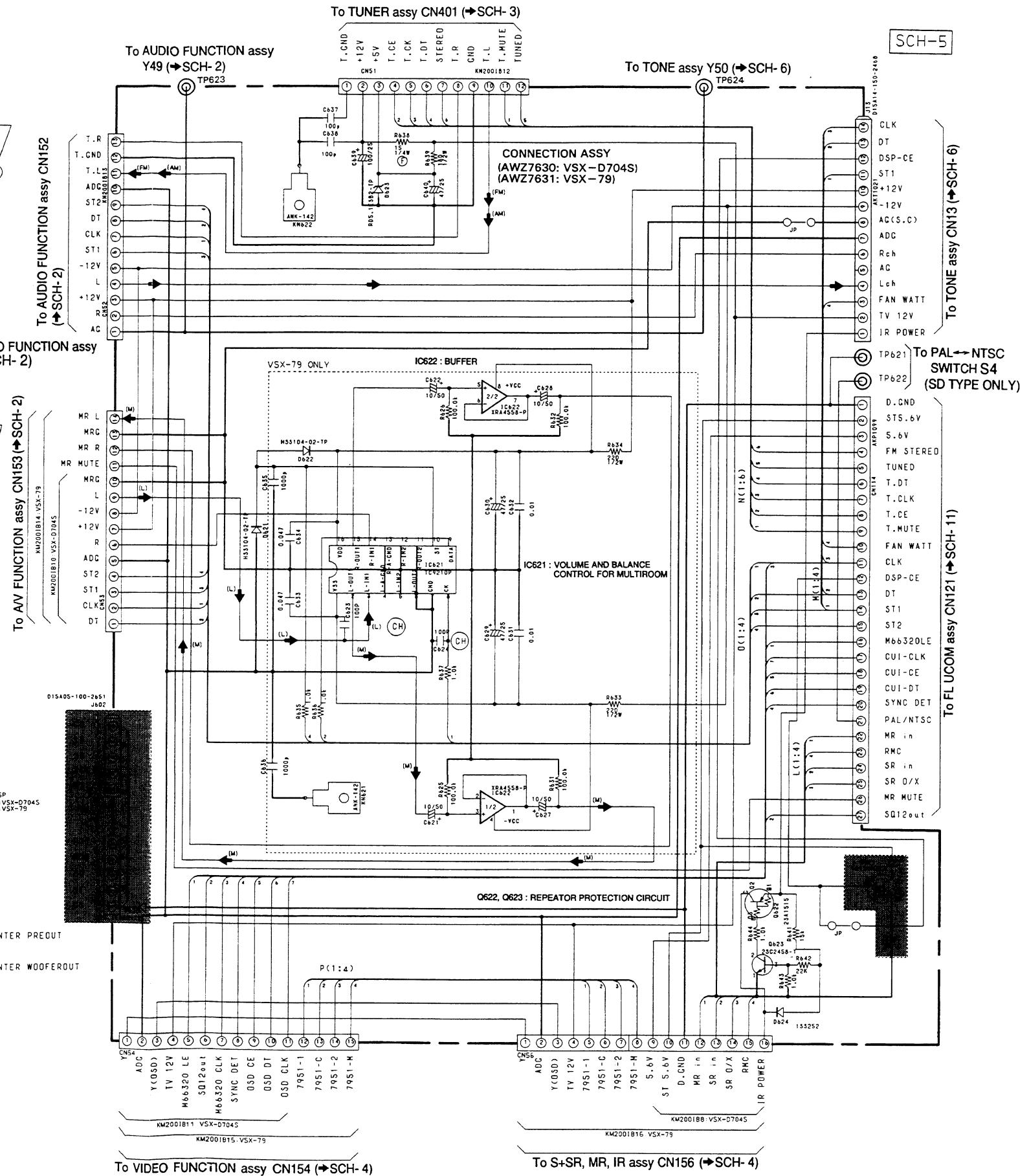
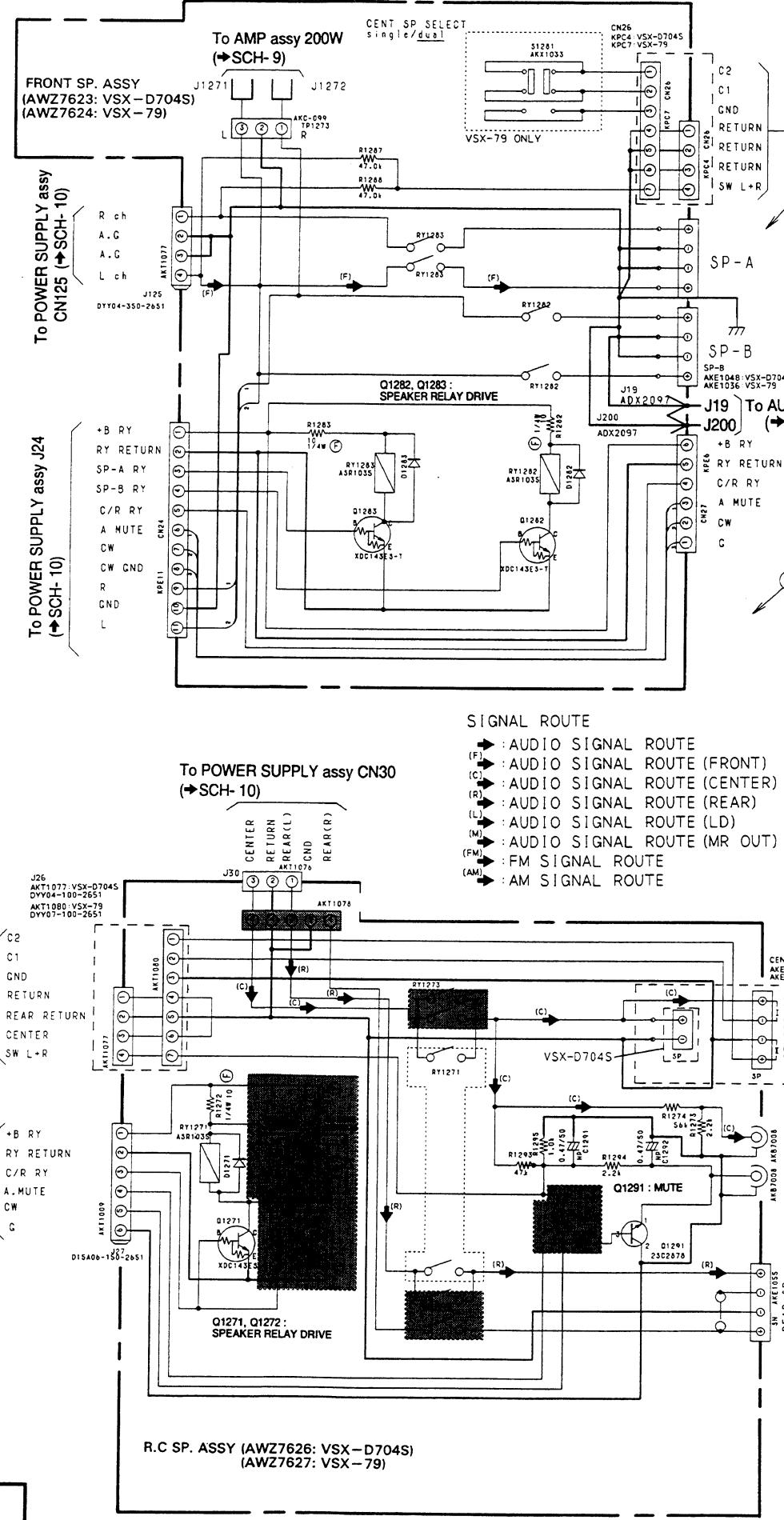
S+SR, MR, IR ASSY



To CONNECTION assy CN56

The parts mounted on this PCB include all necessary parts for several destinations.  
For further information for respective destinations, be sure to check with the schematic diagram.

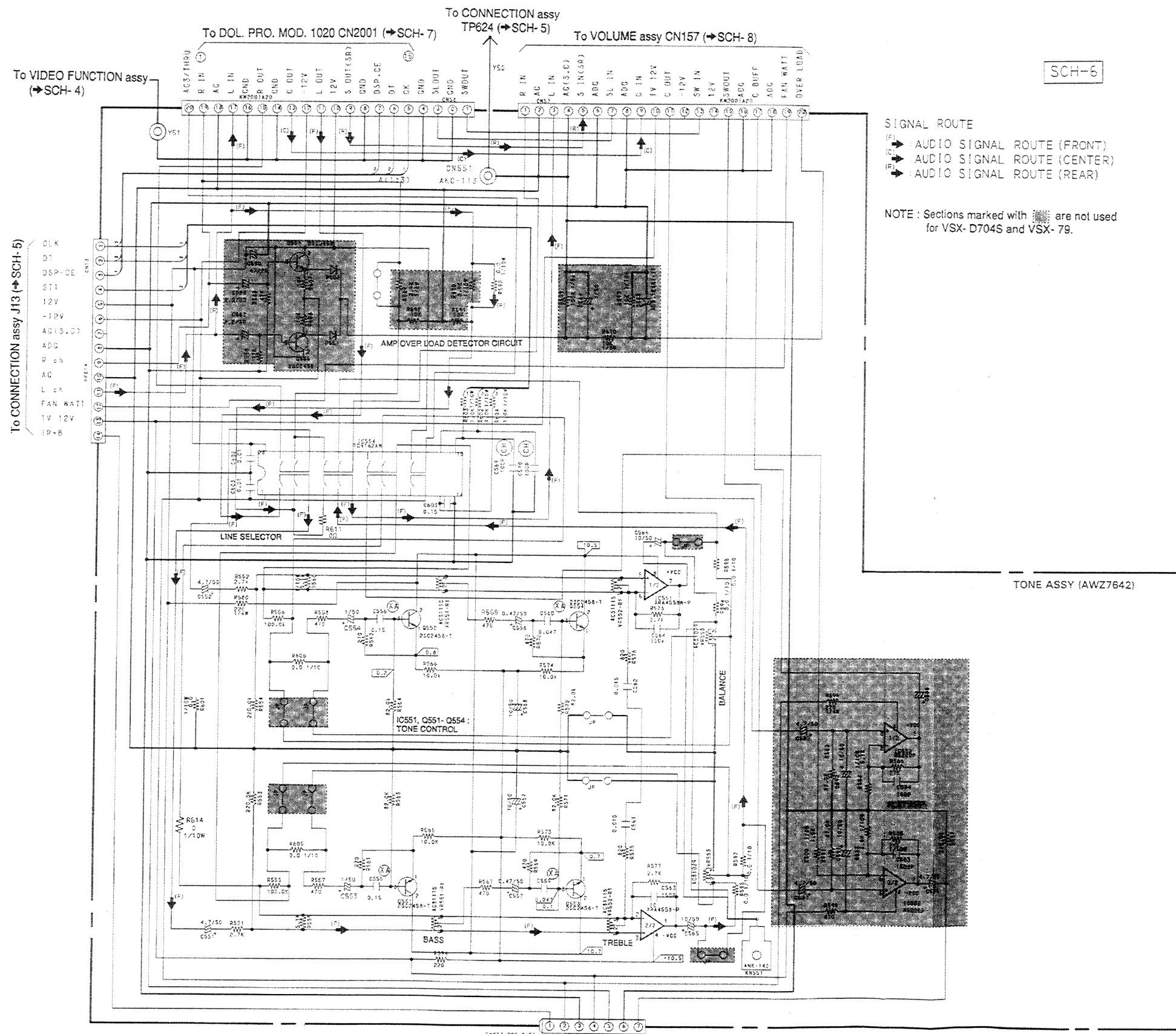
### **3.5 FRONT SP. ASSY, R.C SP. ASSY AND CONNECTION ASS**



NOTE : Sections marked with  are not applicable for VSX- D704S and VSX- 79.

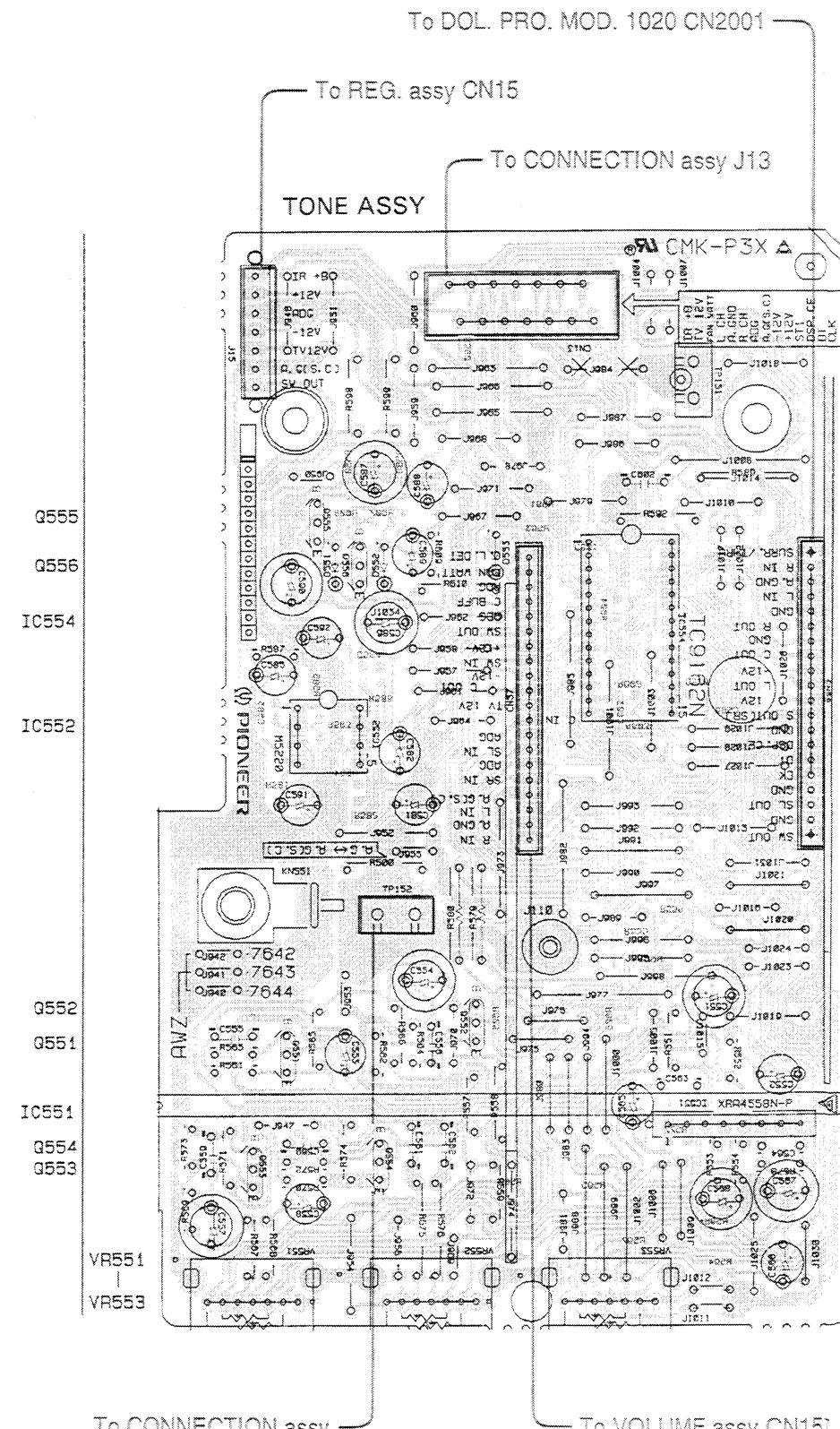


### 3.6 TONE ASSY



SIGNAL ROUTE  
[F] → : AUDIO SIGNAL ROUTE (FRONT)  
[C] → : AUDIO SIGNAL ROUTE (CENTER)  
[R] → : AUDIO SIGNAL ROUTE (REAR)

NOTE : Sections marked with  are not used for VSX-D704S and VSX-79.

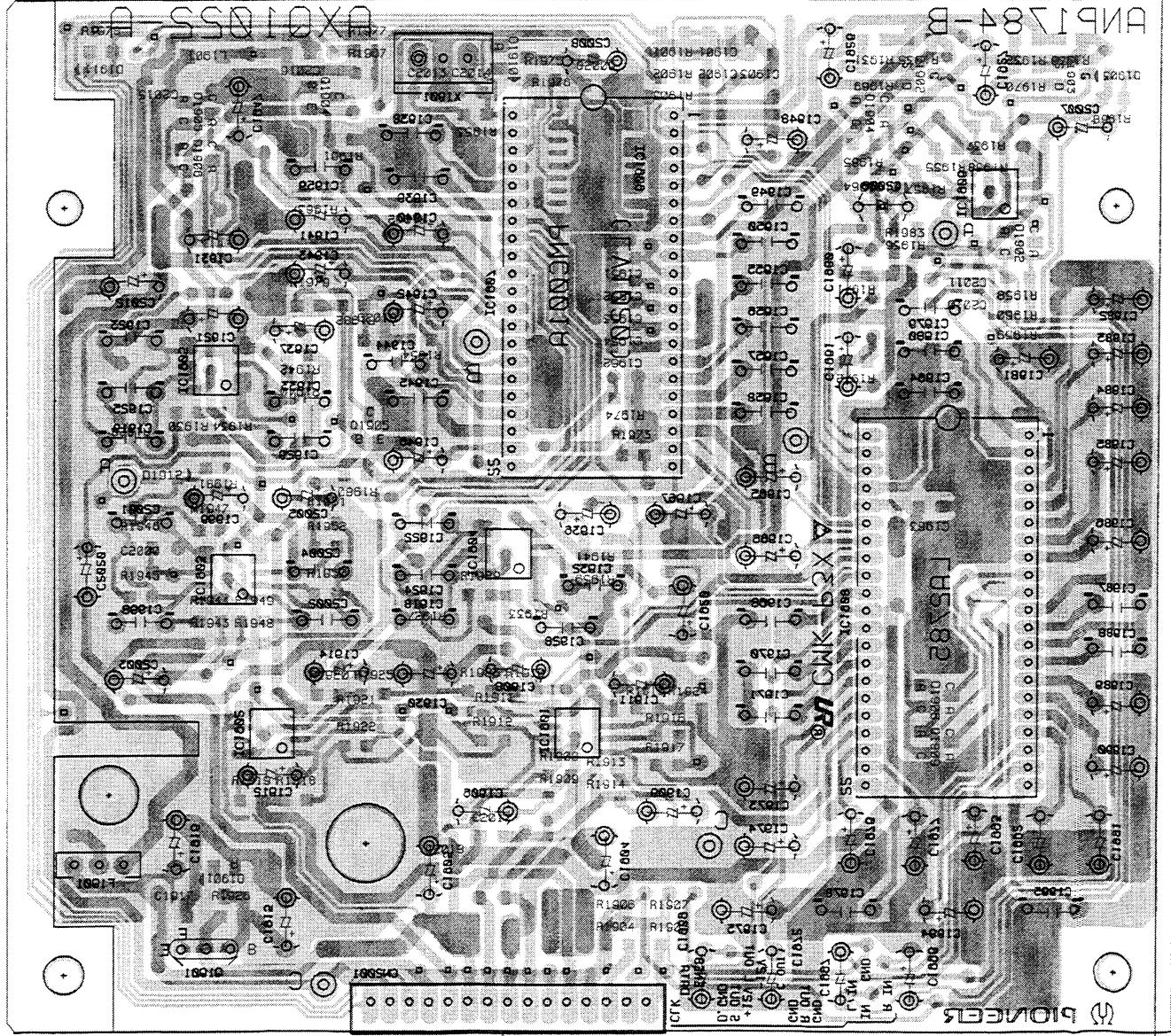


The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

A

A

DOL. PRO. MOP. 1920



To TONE *glossy* C158

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.

## 3.7 DOL. PRO. MOD. 1020

The parts mounted on this PCB include all necessary parts for several destinations.

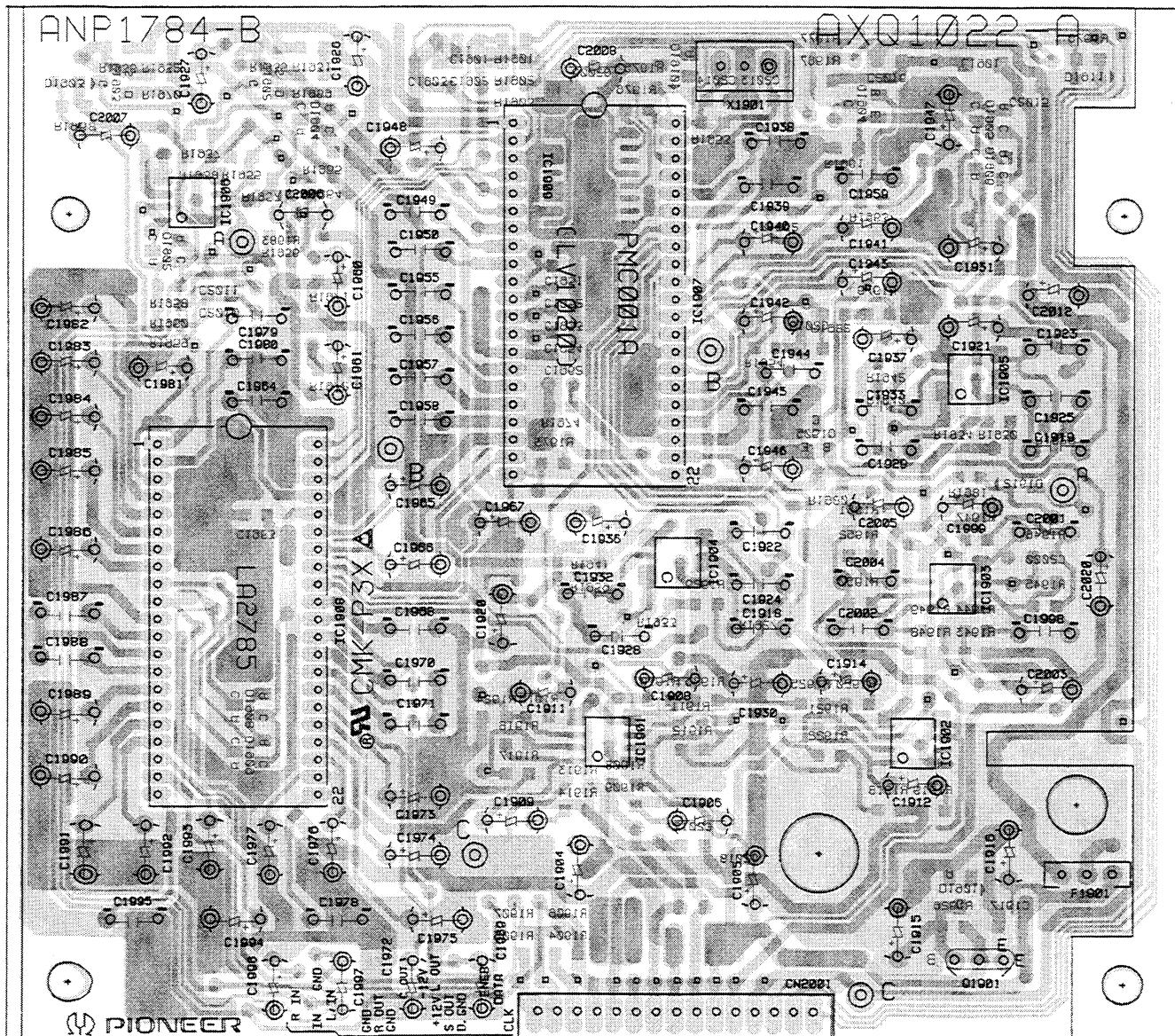
For further information for respective destinations, be sure to check with the schematic diagram.

Q1903 IC1906 Q1902  
IC1908

IC1907  
IC1901 IC1904

Q1905 Q1904 IC1905  
IC1902 IC1903 Q1901

## DOL. PRO. MOD. 1020



To TONE assy CN58

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

DOL. PRO. MOD. 1020 (AXQ1022)

SCH-7

SCH-7

SIGNAL ROUTE

- (F) → : AUDIO SIGNAL ROUTE (FRONT)
- (C) → : AUDIO SIGNAL ROUTE (CENTER)
- (R) → : AUDIO SIGNAL ROUTE (REAR)

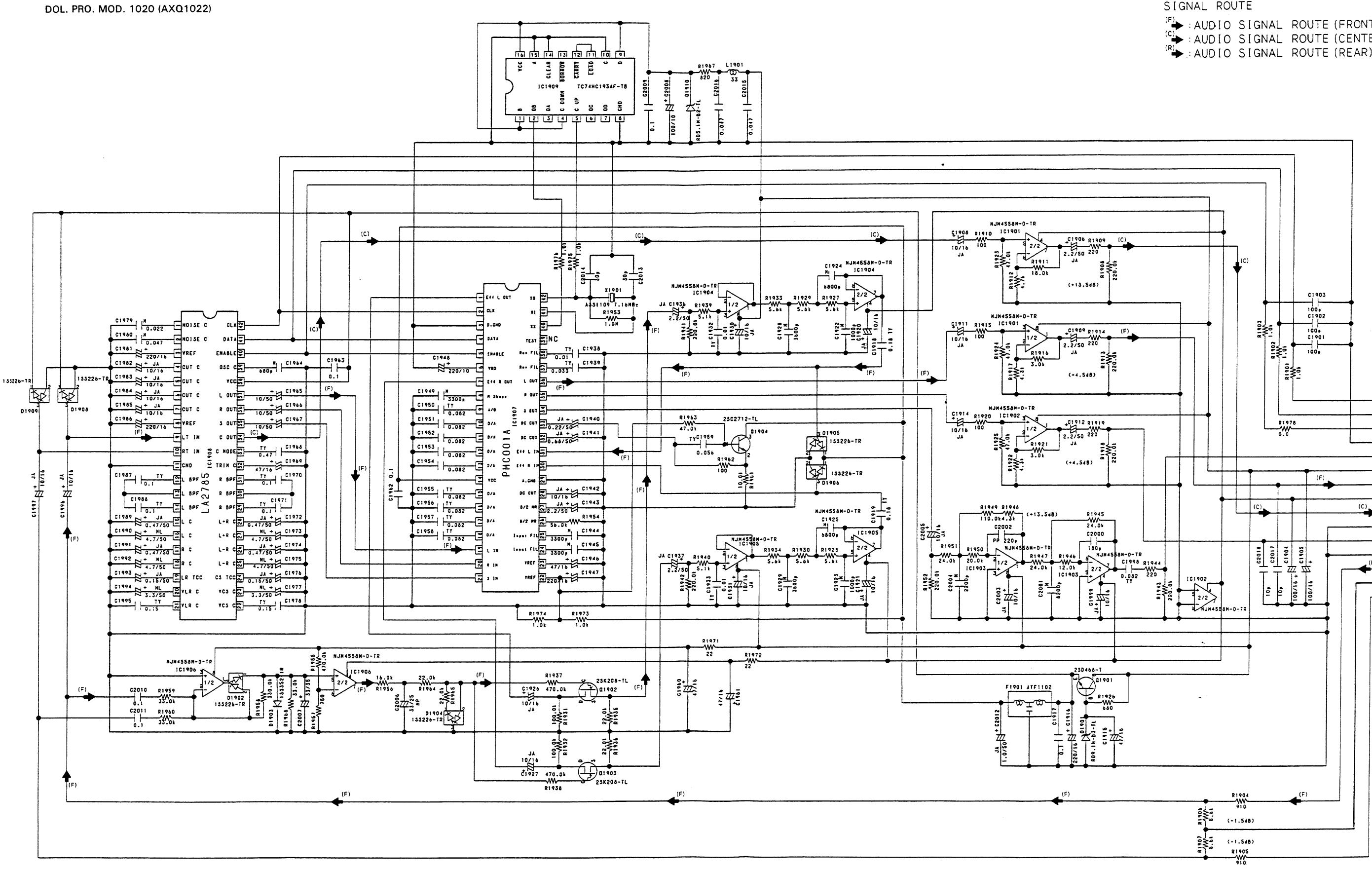
A

B

C

D

CLK  
DATA  
ENEB  
D.GND  
S OUT  
+12V  
L OUT  
-12V  
C OUT  
GND  
R OUT  
GND  
L IN  
INPUT GND  
R IN  
GND



SCH-7

DOL. PRO. MOD. 1020

SCH-7

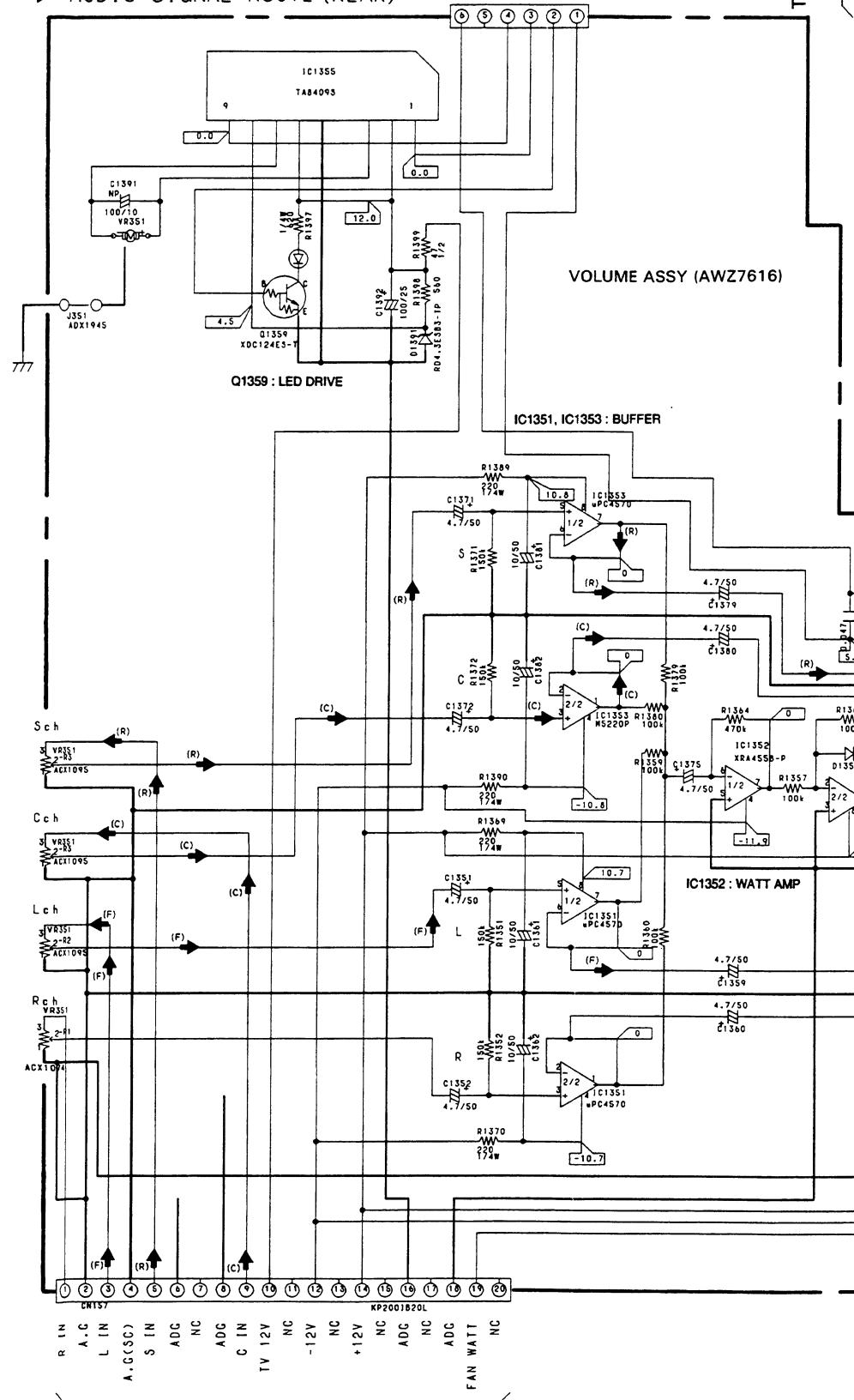
SCH-7

32

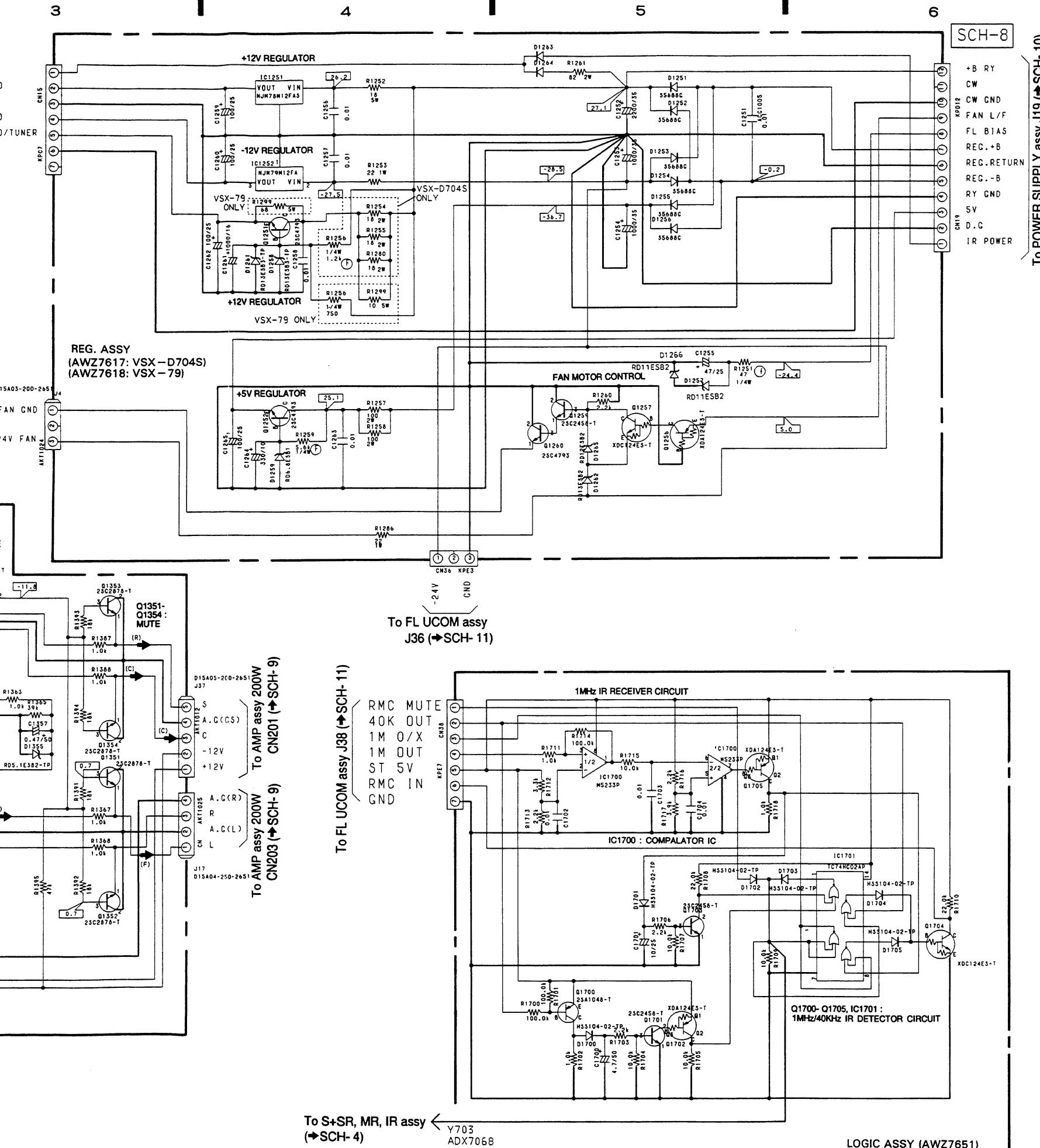
## 3.8 VOLUME ASSY, REG. ASSY AND LOGIC ASS

## SIGNAL ROUTE

- (F) → : AUDIO SIGNAL ROUTE (FRONT)
- (C) → : AUDIO SIGNAL ROUTE (CENTER)
- (R) → : AUDIO SIGNAL ROUTE (REAR)



To TONE assy CN57 (→SCH- 6)



To S+SR, MR, IR assy ←  
(→SCH-4) Y7 AD

**LOGIC ASSY (AWZ7651)**

**SCH-8**

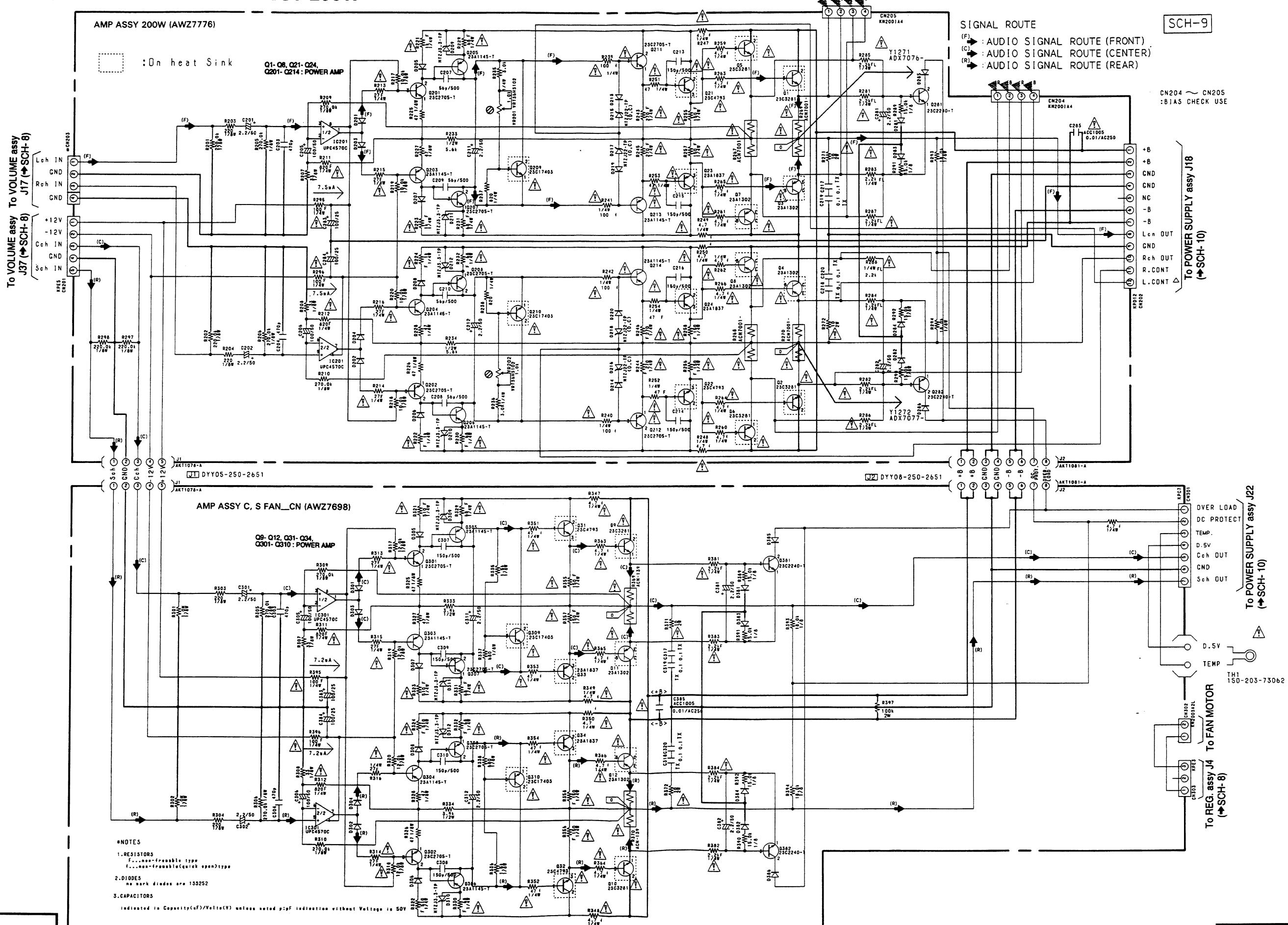
**VOLUME ASSY, REG. ASSY  
LOGIC ASSY**

SCH-8

**VOLUME ASSY, REG. ASSY,  
LOGIC ASSY**

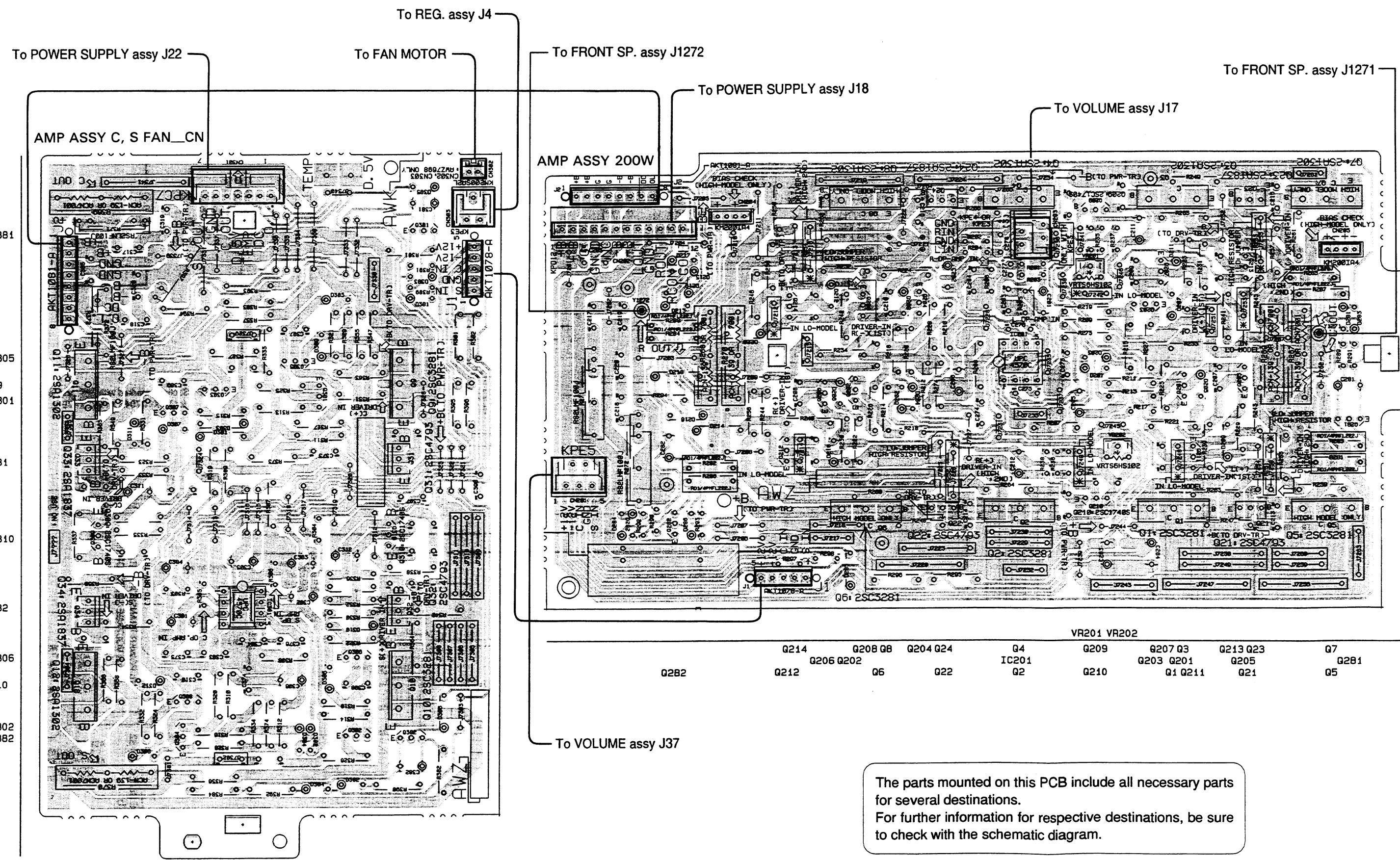


## 3.9 AMP ASSY C, S FAN\_CN AND AMP ASSY 200W



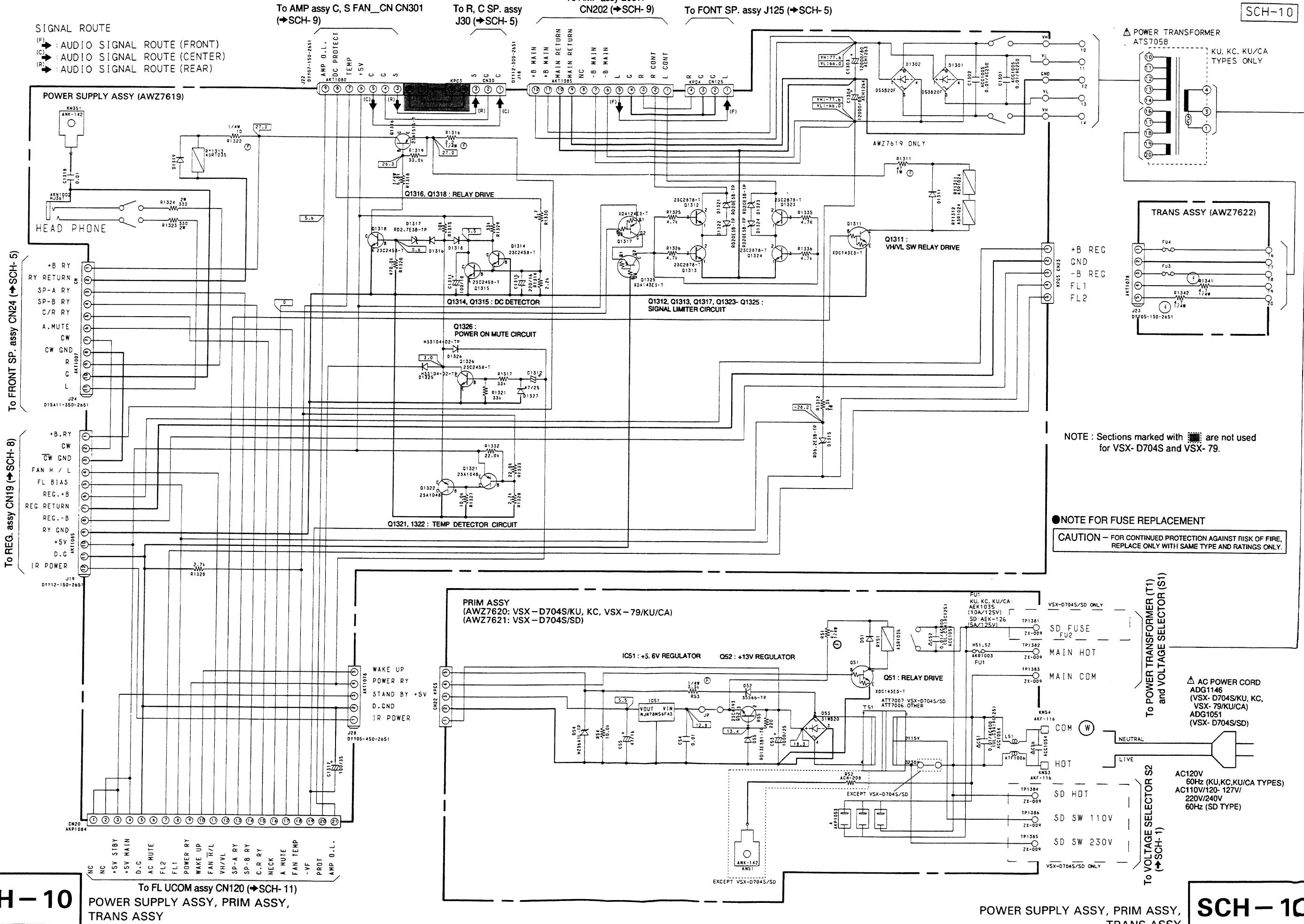
• This diagram is viewed from the mounted parts side.

A



The parts mounted on this PCB include all necessary parts for several destinations.  
For further information for respective destinations, be sure to check with the schematic diagram.

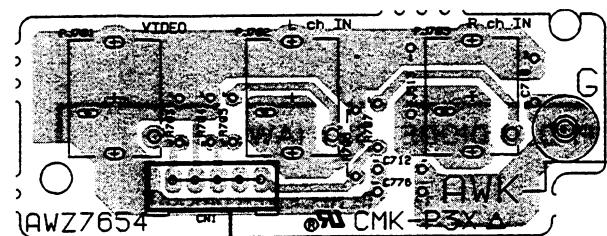
### 3.10 POWER SUPPLY ASSY, PRIM ASSY AND TRANS ASSY



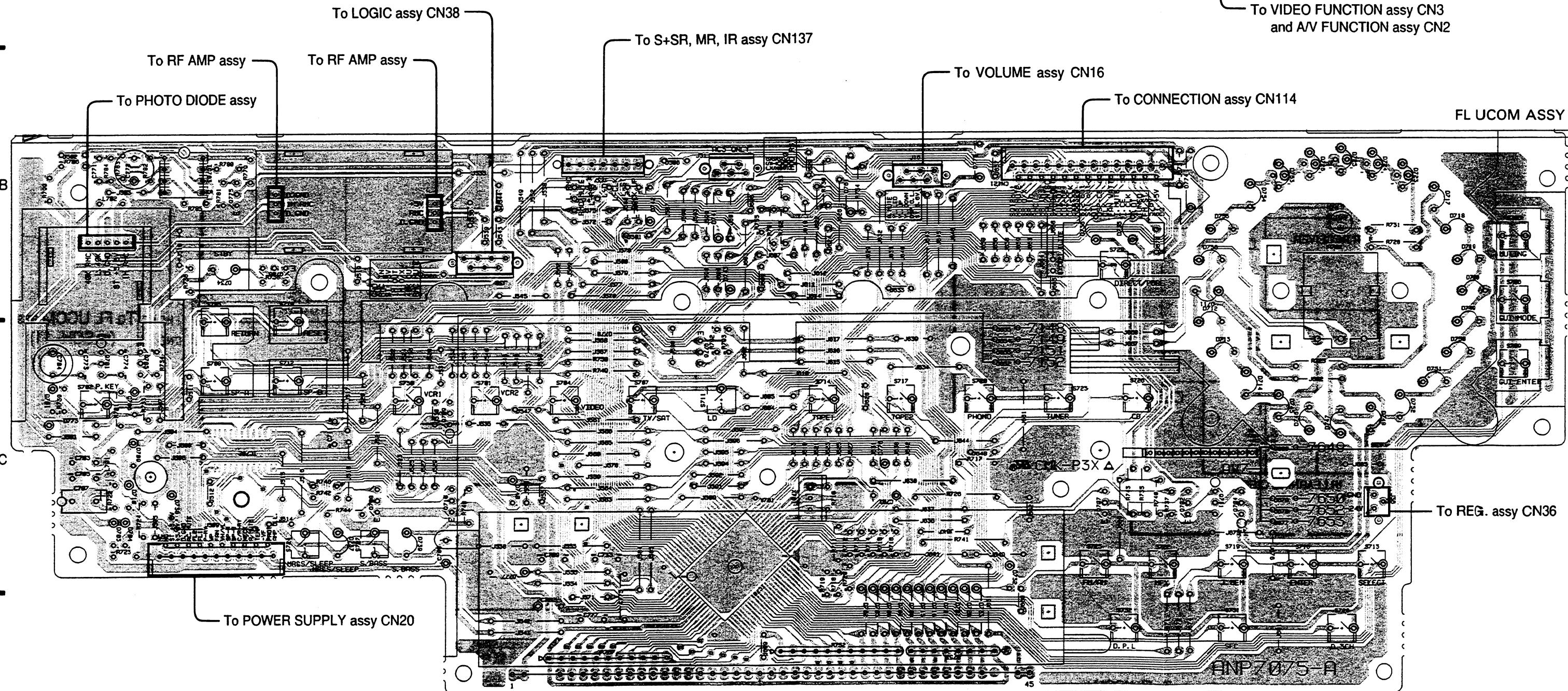
The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

- This diagram is viewed from the mounted parts side.

### VIDEO ASSY



To VIDEO FUNCTION assy CN3 and A/V FUNCTION assy CN2



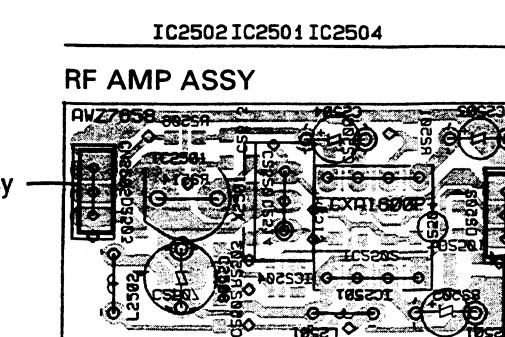
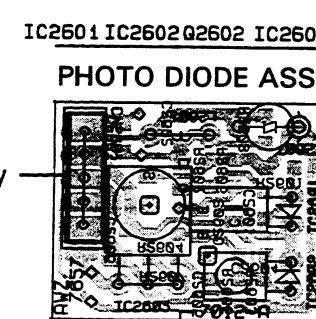
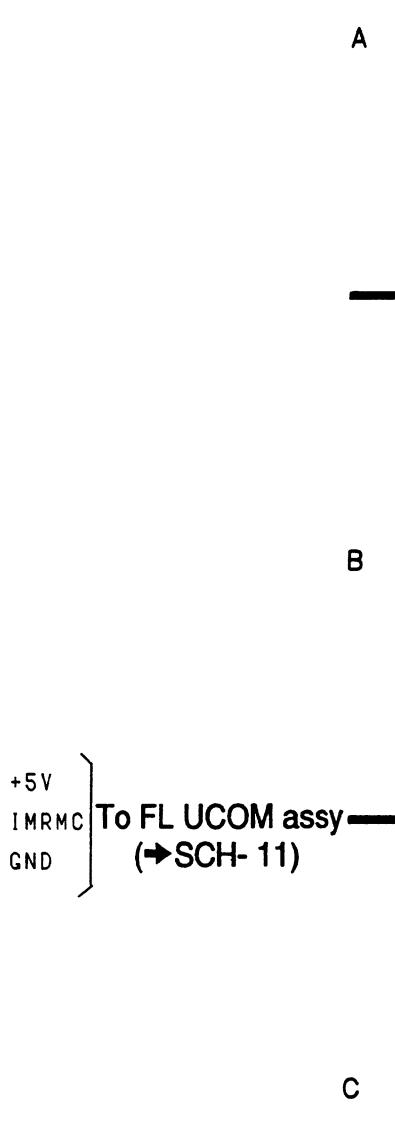
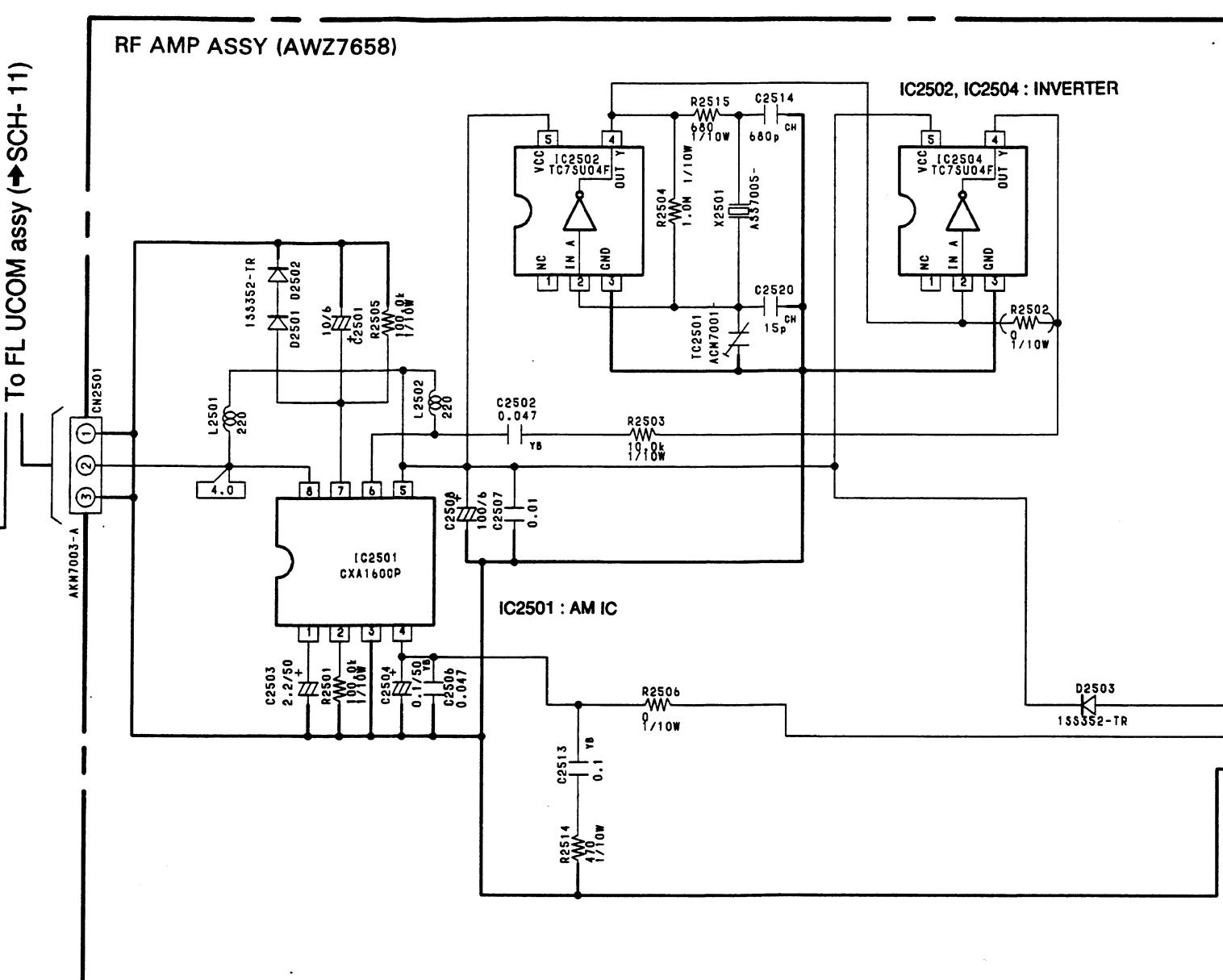
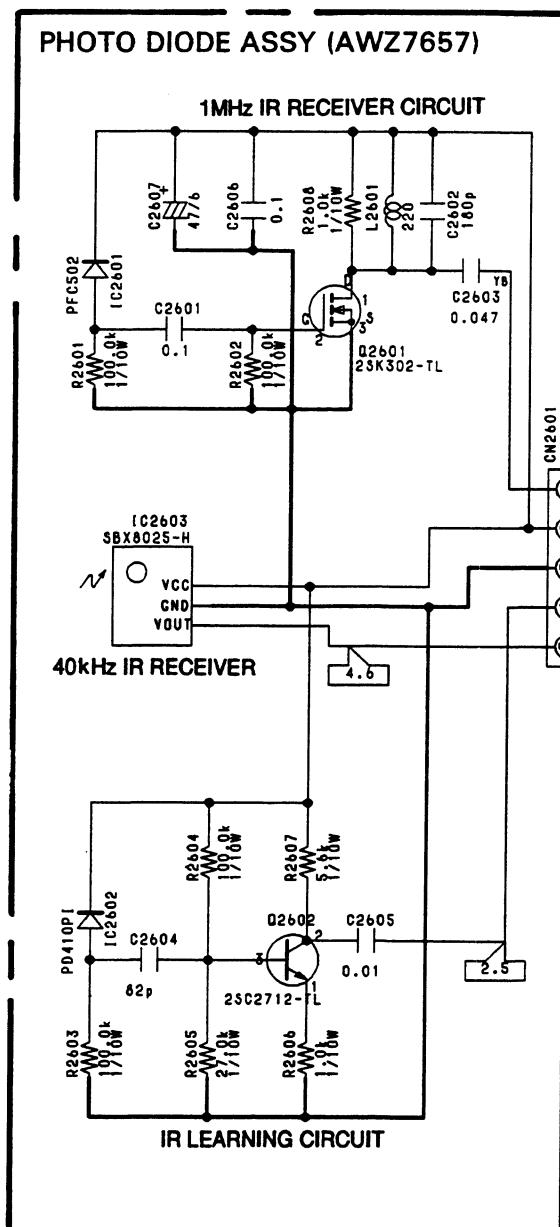
Q701 Q705 IC703 Q775 Q706  
IC702

Q708 Q709 Q710

Q776  
IC701

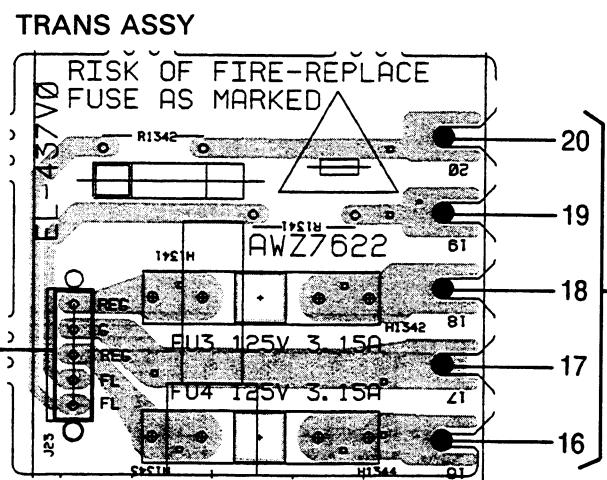
Q707 Q702 Q711 Q704

## 3.12 PHOTO DIODE ASSY AND RF AMP ASSY



The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

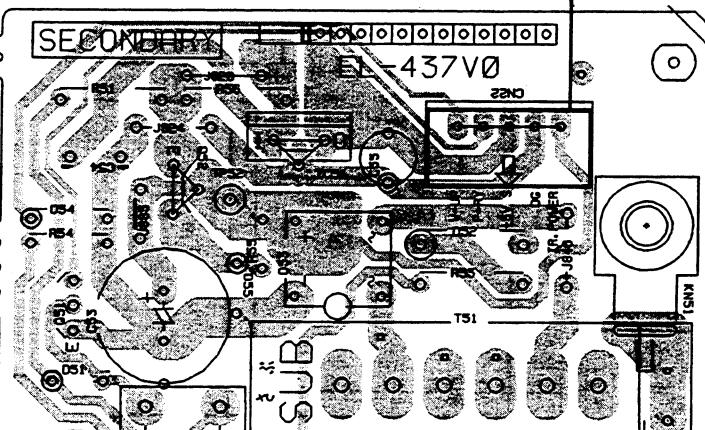
• This diagram is viewed from the mounted parts side.



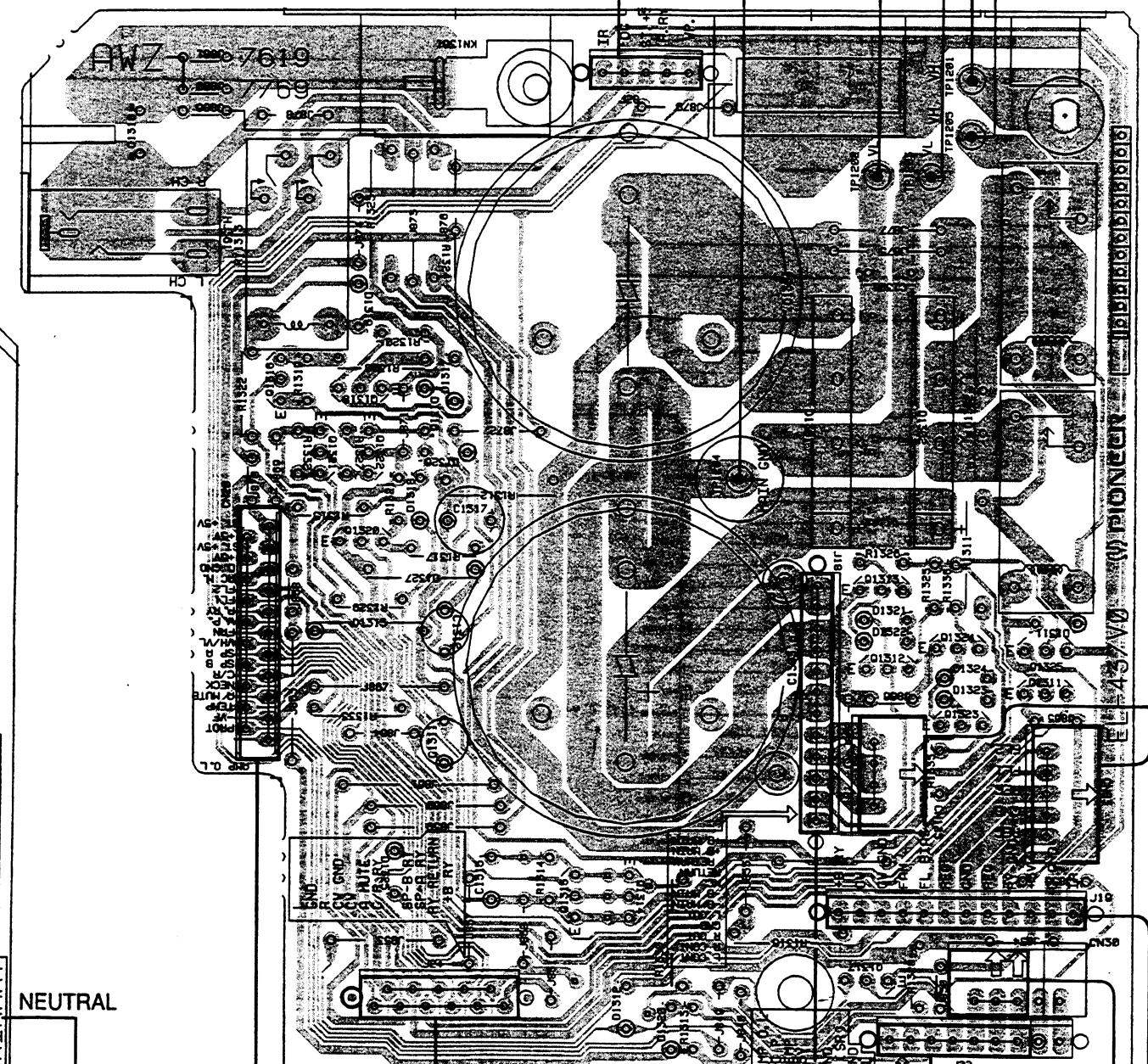
To POWER TRANSFORMER

- This diagram is viewed from the mounted parts side.

## PRIM ASSY



## POWER SUPPLY ASSY

To POWER TRANSFORMER 7  
(SD TYP ONLY)To POWER TRANSFORMER  
4 (KU, KC, KU/CA TYPES)  
1 (SD TYPE)To VOLTAGE SELECTOR S2  
(SD TYPE ONLY)To POWER TRANSFORMER 1  
(KU, KC, SD TYPES)To S1 VOLTAGE SELECTOR  
(SD TYPE)RISK OF FIRE- AWZ  
REPLACE FUSE AS MARKED

Q51 Q52 IC51

PRIMARY  
NEUTRAL

LIVE

To POWER TRANSFORMER

14  
10  
11  
13  
12

To AMP assy 200W CN202

To FRONT SP. assy CN24

To AMP assy C, S FAN CN301

To FL UCOM assy CN120

To R, C SP. assy J30

To REG. assy CN19

To FONT SP. assy J125

To AC POWER CORD

Q1316  
Q1318  
Q1320  
Q1322Q1311  
Q1313  
Q1323  
Q1325Q1314  
Q1315

Q1317

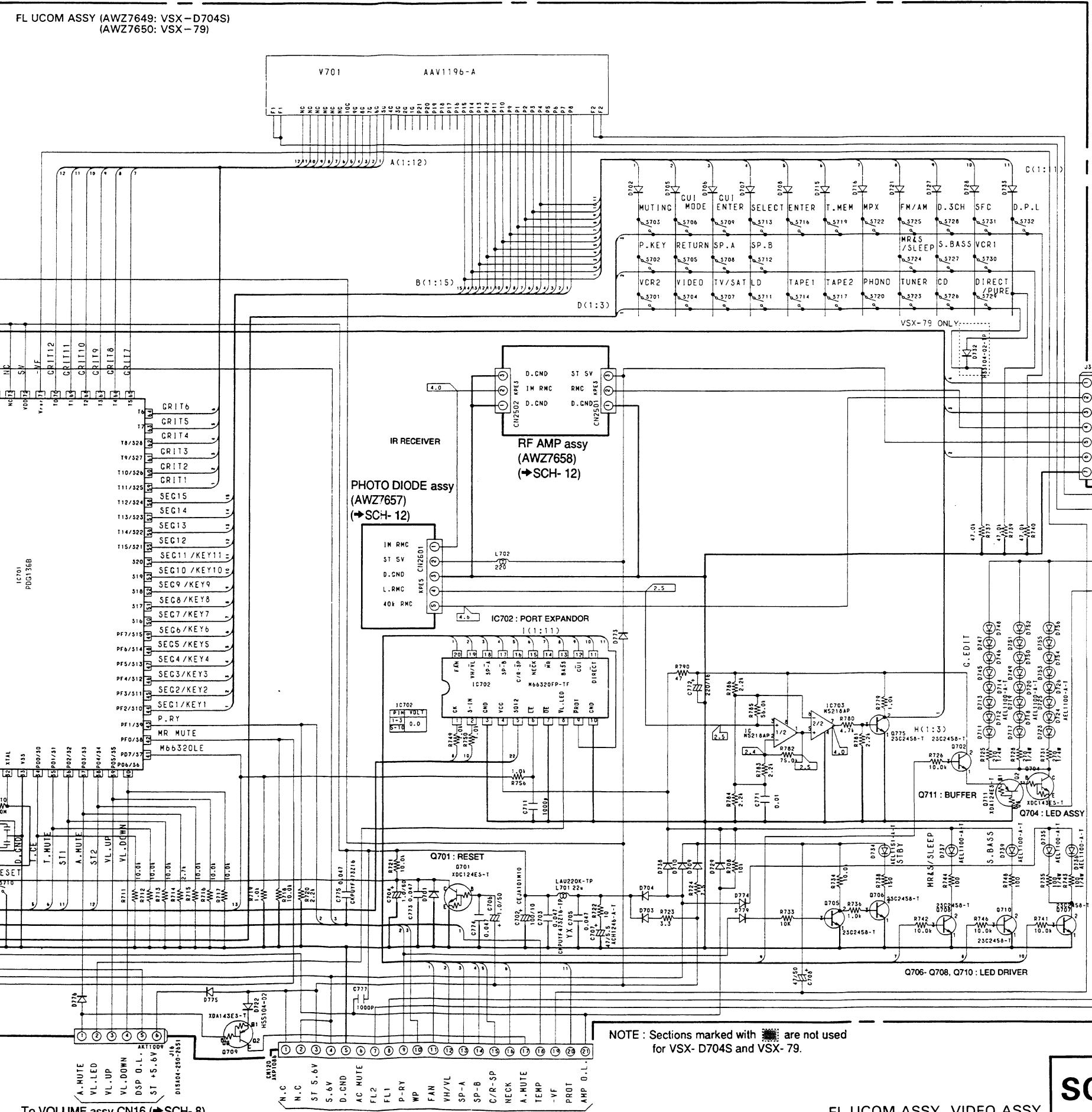
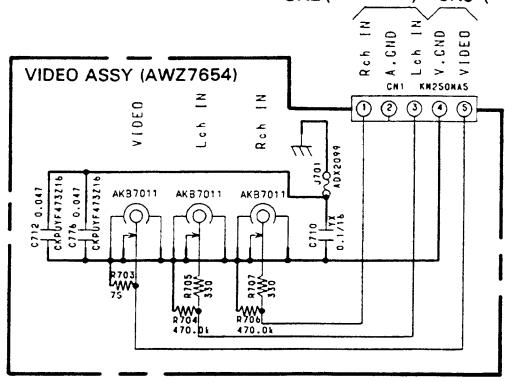
D

D

44

### **3.11 FL UCOM ASSY AND VIDEO ASSY**

To A/V FUNCTION assy CN2 (→SCH-2) To VIDEO FUNCTION assy CN3 (→SCH-4)



NOTE : Sections marked with  are not used for VSX- D704S and VSX- 79.

**SCH-11**

## FL UCOM ASSY, VIDEO ASSY

SCH-11

FL UCOM ASSY, VIDEO ASSY

## 4. PCB PARTS LIST (for VSX-D704S/KU)

### NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 $\Omega$   $\rightarrow$  56  $\times$  10<sup>1</sup>  $\rightarrow$  561 ..... RD1/8PM 5 6 1 J  
 47k $\Omega$   $\rightarrow$  47  $\times$  10<sup>3</sup>  $\rightarrow$  473 ..... RD1/4PS 4 7 3 J  
 0.5 $\Omega$   $\rightarrow$  0R5 ..... RN2H 0 R 5 K  
 1 $\Omega$   $\rightarrow$  010 ..... RS1P 0 1 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k $\Omega$   $\rightarrow$  562  $\times$  10<sup>1</sup>  $\rightarrow$  5621 ..... RM1/4PC 5 6 2 1 F

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>LIST OF ASSEMBLIES</b>							
NSP	TUNER ASSY		AWE1140		Q401		2SK241
	BIG SIGNAL ASSY		AWK7136		Q471		2SK246
	- VOLUME ASSY		AWZ7616		Q473, Q474		RN2201
	- REG. ASSY		AWZ7617		D431-D435		1SS252
	- POWER SUPPLY ASSY		AWZ7619		D401-D403		1SV147
	- PRIM ASSY		AWZ7620		L401		ATC1001
NSP	- TRANS ASSY		AWZ7622		L402		ATC1002
NSP	- FRONT SP. ASSY		AWZ7623		L405		ATC1003
NSP	- R.C SP. ASSY		AWZ7626		L403		ATC1004
	- CONNECTION ASSY		AWZ7630		L404		ATC1005
	SMALL SIGNAL ASSY		AWK7143		T402		ATE-063
	- AUDIG FUNCTION ASSY		AWZ7634		L431		ATE-079
	- A/V FUNCTION ASSY		AWZ7636		F421		ATF-107
	- VIDEO FUNCTION ASSY		AWZ7638		F422		ATF-119
	- TONE ASSY		AWZ7642		F431 (450KHZ)		ATF-208
	- S+SR, MR, IR ASSY		AWZ7645		L406, L407		LAU2R2M
	FRONT ASSY		AWK7148		<b>CAPACITORS</b>		
NSP	- FL UCOM ASSY		AWZ7649		C454 (470pF/50V)		ACE1039
	- LOGIC ASSY		AWZ7651		C466		CCCSL121J50
	- VIDEO ASSY		AWZ7654		C417		CCDCH010C50
	- IR RECEIVER ASSY		AWX7012		C406		CCDCH020C50
	- PHOTO DIODE ASSY		AWZ7657		C415		CCDCH080D50
	- RF AMP ASSY		AWZ7658				
	POWER AMP MODULE 200W		AWK7175		C413, C481, C482		CCDCH150J50
	- AMP ASSY C, S FAN_CN		AWZ7698		C414		CCDCH1330J50
	- AMP ASSY 200W		AWZ7776		C401, C404, C405		CCDRH1330J50
	DOL. PRO. MOD. 1020		AXQ1022		C402		CCDRH1390J50
					C416		CCDTH180J50
<b>TUNER ASSY</b>							
<b>SEMICONDUCTORS</b>							
	IC451		AN7470P		C479		CCPUSL220J50
	IC431		LA1265S		C445		CCPUSL470J50
	IC471		LM7001		C452		CEANP4R7M35
	Q454		2SA933S		C442		CEAS01R1M50
	Q452, Q453		2SC1740S		C420, C437, C475		CEAS100M50
	Q472		2SC1740SLN				
	Q451		2SC2603		C451		CEAS1O1M16
	Q403, Q421		2SC2668		C456		CEAS1R5M50
	Q402		2SC2786		C438		CEAS2R2M50
	Q405		2SK161		C443, C455		CEAS3R3M50
					C458, C463, C464, C484		CEAS470M16
					C433, C461, C462		CEAS4R7M50
					C457		CEASR22M50
					C478		CFTXA224J50
					C477		CKCYF103Z50
					C439, C440		CKCYF223Z50

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
C435			CKCYF472Z50	Q1257			XDC124ES
C453			CKCYF473Z50	D1263, D1264			1SS252
C436			CKCYX683M25	D1257, D1266			RD11ESB2
C400			CKDYF102Z50	D1265			RD12ESB2
C409, C483			CKPUYB101K50	D1262			RD13ESB2
C444			CKPUYB331K50	D1258, D1261			RD13ESB3
C441, C472			CKPUYF223Z25	D1259			RD6.8ESB1
C403, C410-C412, C418, C419			CKPUYY103N16	D1251-D1256			S5688G
C421, C422, C465, C471, C473			CKPUYY103N16				
C476, C480, C485			CKPUYY103N16				
C459, C460			CQMA102J50				
C468, C469			CQMA182J50				
C446, C447			CQMA561K50				
<b>RESISTORS</b>							
VR451 (4.7kΩ)			ACP1042	C1264			CEAS331M10
VR431 (10kΩ)			ACP1043	C1255			CEAS470M25
VR432			VRTS6VS153	C1256-C1258, C1263			CKCYF103Z50
Other Resistors			RD1/8PM□□□				
<b>OTHERS</b>							
X471	ANTENNA TERMINAL 4-P	AKA1014		R1256			RD1/4PMF122J
X431	CRYSTAL RESONATOR	ASS1005		R1259			RD1/4PMF562J
X431	CERAMIC FILTER	ATF-125		R1251			RFA1/4PS470J
	AM RF TUNING BLOCK	AXX1011		R1286			RSILMF220J
CN401	12P SOCKET	KP200IA12L		R1253			RS1PMF220J
<b>VOLUME ASSY</b>				R1257, R1258			RS2LMF101J
<b>SEMICONDUCTORS</b>				R1254, R1255, R1280			RS2LMF180J
IC1355				R1261			RS2LMF820J
IC1351, IC1353				R1252			RT5PD180K
IC1352				Other Resistors			RD1/8PM□□□
Q1351-Q1354							
Q1355							
Q1357							
D1352, D1353							
D1391							
D1355							
<b>CAPACITORS</b>							
C1391			CEANP101M10	Q1321, Q1322			2SA1048
C1361, C1362, C1381, C1382			CEAS100M50	Q1316			2SA1515
C1392			CEAS101M25	Q1314, Q1315, Q1318, Q1320			2SC2458
C1351, C1352, C1359, C1360			CEAS4R7M50	Q1312, Q1313, Q1323, Q1324			2SC2878
C1371, C1372, C1375, C1379, C1380			CEAS4R7M50	Q1317, Q1325			XDA143ES
C1357			CEASR47M50	Q1311			XDC143ES
C1376			CKPUYF473Z16	D1301, D1302			D5SB20F
<b>RESISTORS</b>				D1311, D1316, D1318, D1319			HSS104-02
VR1351 (100kΩ × 4)				D1325-D1327			HSS104-02
R1399				D1317			RD2.7ESB1
R1369, R1370, R1389, R1390							
R1397							
Other Resistors							
<b>OTHERS</b>							
CN157	CABLE HOLDER	AKT1012		D1321-D1324			RD20ESB
CN16	20P SOCKET	KP200IB20L		D1315			RD6.2ESB
CN16	CONNECTOR (6P)	KPE6					
<b>REG. ASSY</b>							
<b>SEMICONDUCTORS</b>							
IC1251			NJM78M12FAS	RY1311, RY1312			ASR1027
IC1252			NJM79M12FA	RY1313			ASR1035
Q1259			2SC2458				
Q1251, Q1252, Q1260			2SC4793				
Q1256			XDA124ES				
<b>CAPACITORS</b>							
C1301, C1302	(0.01μF/150V)	C1302	(0.01μF/150V)				ACG1005
C1303	(12000μF/80V)	C1303	(12000μF/80V)				ACH1263
C1304	(12000μF/80V)	C1304	(12000μF/80V)				ACH1264
C1311		C1311					CEAS101M10
C1317		C1317					CEAS101M35
<b>POWER SUPPLY ASSY</b>							
<b>SEMICONDUCTORS</b>							
Q1321, Q1322							
Q1316							
Q1314, Q1315, Q1318, Q1320							
Q1312, Q1313, Q1323, Q1324							
Q1317, Q1325							
<b>SWITCHES AND RELAYS</b>							
RY1311, RY1312							
RY1313							
<b>CAPACITORS</b>							
C1301, C1302	(0.01μF/150V)	C1302	(0.01μF/150V)				ACG1005
C1303	(12000μF/80V)	C1303	(12000μF/80V)				ACH1263
C1304	(12000μF/80V)	C1304	(12000μF/80V)				ACH1264
C1311		C1311					CEAS101M10
C1317		C1317					CEAS101M35
<b>CEAS221M16</b>							
<b>CEAS470M25</b>							
<b>CKCYF103Z50</b>							

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>RESISTORS</b>							
	R1322		RD1/4PMF100J				
	R1316		RD1/4PMF2R2J				
	R1318		RD1/4PMF682J				
	R1330		RFA1/4PS4R7J				
	R1312		RS1LMF332J				
	R1311		RS1PMF470J				
	R1323, R1324		RS2LMF331J				
	Other Resistors		RD1/8PM□□□J				
<b>OTHERS</b>							
CN20	JACK 21P SOCKET	AKN1002 AKP1084					
	CABLE HOLDER	AKT1007					
	CABLE HOLDER (7P)	AKT1080					
	CABLE HOLDER (12P)	AKT1085					
CN30	JUMPER CONNECTOR 3-P	KPC3					
CN125	CONNECTOR (4P)	KPC4					
CN23	CONNECTOR (5P)	KPC5					
<b>PRIM ASSY</b>							
<b>SEMICONDUCTORS</b>							
IC51		NJM78M56FAS					
Q52		2SC4793					
Q51		XDC143ES					
D51		HSS104-02					
D54		HZS6A1L					
D55		RD13ESB1					
D53		S1WB20					
D52		S5688G					
<b>COILS AND FILTERS</b>							
L51	(0.3mH, 270V)	ATF1006					
<b>TRANSFORMERS</b>							
T51		ATT7006					
<b>SWITCHES AND RELAYS</b>							
RY51		ASR1036					
<b>CAPACITORS</b>							
C51, C52, C56		ACG1054					
C53		CEAS102M25					
C55		CEAS470M25					
C54		CKCYB103K50					
<b>RESISTORS</b>							
R52	(2.2MΩ, 1/2W)	ACN-208					
R53		RD1/4PMF332J					
R51		RD1/4PMF4R7J					
Other Resistors		RD1/8PM□□□J					
<b>OTHERS</b>							
△	AC OUTLET 3P	AKP1053					
△	H51, H52 FUSE CLIP	AKR1003					
CN22	CONNECTOR (5P)	KPC5					
<b>TRANS ASSY</b>							
<b>RESISTORS</b>							
R1341, R1342		RFA1/4PL4R7J					
<b>OTHERS</b>							
△	H1341-H1344 FUSE CLIP	AKR1003					
<b>FRONT SP. ASSY</b>							
<b>SEMICONDUCTORS</b>							
Q1282, Q1283		XDC143ES					
D1282, D1283		HSS104-02					
<b>SWITCHES AND RELAYS</b>							
RY1282, RY1283		ASR1035					
<b>RESISTORS</b>							
R1282, R1283		RD1/4PMF100J					
Other Resistors		RD1/8PM□□□J					
<b>OTHERS</b>							
CN8004	SPEAKER TERMINAL 8-P	AKE1048					
	CABLE HOLDER (4P)	AKT1077					
CN26	CONNECTOR (4P)	KPC4					
CN24	CONNECTOR (11P)	KPE11					
CN27	CONNECTOR (6P)	KPE6					
<b>R.C SP. ASSY</b>							
<b>SEMICONDUCTORS</b>							
Q1291		2SC2878					
Q1271		XDC143ES					
D1271		HSS104-02					
<b>SWITCHES AND RELAYS</b>							
RY1271		ASR1035					
<b>CAPACITORS</b>							
C1291, C1292		CEANPR47M50					
<b>RESISTORS</b>							
R1272		RD1/4PMF100J					
Other Resistors		RD1/8PM□□□J					
<b>OTHERS</b>							
CN8007	2P PIN JACK	AKB7008					
CN8016	SPEAKER TERMINAL 2-P	AKE1041					
	SPEAKER TERMINAL 4-P	AKE1055					
	CABLE HOLDER (3P)	AKT1076					
	CABLE HOLDER (4P)	AKT1077					
<b>CONNECTION ASSY</b>							
<b>SEMICONDUCTORS</b>							
Q622		2SA1515					
Q623		2SC2458					
D624		1SS252					
D623		RD5.1ESB2					
<b>CAPACITORS</b>							
C623, C624		CCCH101J50					
C637, C638		CCCSL101J50					
C639		CEAS101M25					
C640		CEAS470M25					
<b>RESISTORS</b>							
R639		RD1/2PM181J					
R638		RD1/4PMF150J					
Other Resistors		RD1/8PM□□□J					
<b>OTHERS</b>							
CN114	SOCKET (27P)	AKP1099					
CN53	10P PLUG	KM200LB10					
CN54	11P PLUG	KM200LB11					
CN51	12P PLUG	KM200LB12					
CN52	13P PLUG	KM200LB13					
CN56	8P PLUG	KM200LB88					
CN55, CN59	9P PLUG	KM200LB99					

Mark	No.	Description	Parts No.
<b>AUDIO FUNCTION ASSY</b>			
<b>SEMICONDUCTORS</b>			
IC404		M5220P	
IC401		TC9164AN	
IC403		XRA4558-P	
<b>CAPACITORS</b>			
C1402, C1403		CCSQCH101J50	
C447		CCSQCH102J50	
C419, C420		CCSQCH221J50	
C417, C418		CCSQCH681J50	
C423, C424		CCSQSL101J50	
C415, C416		CEAS100M50	
C421, C422, C431, C432		CEAS101M25	
C433, C434, C439, C440		CEAS2R2M50	
C1401, C429, C430, C435, C436		CKSQYF103Z50	
C441, C444		CKSQYF103Z50	
C427, C428		CQMA242J50	
C425, C426		CQMA822J50	
<b>RESISTORS</b>			
All Resistors		RS1/10S□□□J	
<b>OTHERS</b>			
PIN JACK (6P)		AKB7012	
PIN JACK (6P)		AKB7013	
CABLE HOLDER (11P)		AKT1084	
CN152 13P SOCKET		KP200IB13L	
<b>A/V FUNCTION ASSY</b>			
<b>SEMICONDUCTORS</b>			
IC451		TC9163AN	
<b>CAPACITORS</b>			
C494, C495		CCSQCH101J50	
C487		CCSQCH102J50	
C481, C482		CEAS470M25	
C475, C476, C483, C484, C491		CKSQYF103Z50	
<b>RESISTORS</b>			
All Resistors		RS1/10S□□□J	
<b>OTHERS</b>			
PIN JACK (4P)		AKB7014	
PIN JACK (4P)		AKB7015	
CN2 PLUG 3-P		KM250MA3L	
CN153 10P SOCKET		KP200IB10L	
CN11 L-CONNECTOR (11P)		KPD11L	
<b>VIDEO FUNCTION ASSY</b>			
<b>SEMICONDUCTORS</b>			
IC501		LA7951	
IC504		M66320FP	
IC505		MM1067XD	
IC502		NJM2233BLA	
IC508		NJM2243L	
IC506		PD6157A	
IC510		UPC78L05J	
Q504-Q506		2SA1115	
Q507		2SA1515	
Q501		2SC2458	
D501-D503		HSS104-02	
<b>COILS AND FILTERS</b>			
L504		LAU220J	
L501, L502, L506-L508		LAU680J	

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
TC501		ACM-023	
C1507, C1508		CCSQCH050C50	
C1521		CCSQCH101J50	
C537, C541		CCSQCH150J50	
C529		CCSQCH221J50	
<b>RESISTORS</b>			
C542		CEAS101M10	
C501		CEAS101M25	
C519, C528		CEAS470M25	
C525, C526		CEAS470M25	
C1514, C520, C522		CEAS100M50	
C534		CEAS101M10	
C513		CEAS101M25	
C1502-C1504, C502-C506		CEAS470M25	
C516-C518, C532, C540, C544		CEAS470M25	
C548, C550		CEAS470M25	
C1510-C1512		CEAS471M10	
C530		CEASR47M50	
C1515, C1516, C1519, C531		CKSQYB102K50	
C1517, C1518		CKSQYB104K25	
C527		CKSQYB332K50	
C1505, C1506, C514, C515, C521		CKSQYF103Z50	
C533, C536, C539, C546		CKSQYF103Z50	
C523		CKSQYF473Z50	
<b>RESISTORS</b>			
R540, R541		RD1/2PM331J	
R532		RD1/4PM680J	
Other Resistors		RS1/10S□□□J	
<b>OTHERS</b>			
PIN JACK (2P)		AKB7016	
2P RCA PINJACK		AKB7017	
3P RCA PINJACK		AKB7018	
X502		CRYSTAL RESONATOR	
X501		CERAMIC RESONATOR	
CN3		PLUG 3-P	
CN154		11P SOCKET	
CN155		9P SOCKET	
<b>TONE ASSY</b>			
<b>SEMICONDUCTORS</b>			
IC554		TC9162AN	
IC551		XRA4558N-P	
Q551-Q554		2SC2458	
<b>CAPACITORS</b>			
C569, C570		CCSQCH101J50	
C603		CCSQCH471J50	
C553, C554		CEAS101M50	
C565-C568		CEAS100M50	
C551, C552		CEAS47R7M50	
C557, C558		CEASR47M50	
C555, C556		CFTXA154J50	
C559, C560		CFTXA473J50	
C602		CKCYF103Z50	
C563, C564		CKPUYB151K50	
C601		CKSQYF103Z50	
C561, C562		CQMA153J50	
<b>RESISTORS</b>			
VR553 (10kΩ - B×2)		ACS1029	
VR551, VR552 (30kΩ - B5×2)		ACS1115	
R579, R580		RD1/4PM221J	
R590, R594-R597, R601		RS1/10S000J	
R605, R606		RS1/10S000J	

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	R602–R604		RS1/10S102J		D701–D710, D715, D716		HSS104–02
	R555, R556		RS1/10S104J		D721, D722, D727–D729, D733		HSS104–02
	R577		RS1/10S272J		D738, D740–D743, D761		HSS104–02
	R560		RS1/10S512J		D773–D779		HSS104–02
	Other Resistors		RD1/8PM□□□J				
<b>OTHERS</b>							
		CABLE HOLDER (7P)	AKT1080				
CN58	15P PLUG		KM200IB15				
CN57	20P PLUG		KM200IB20				
CN13	CONNECTOR (14P)		KPE14				
<b>S+SR, MR, IR ASSY</b>							
<b>SEMICONDUCTORS</b>							
	IC658		LH5268AN1TLL				
	IC657		PD5320A				
	IC656		TC74HC123AF				
	Q657		2SA1048				
	Q655, Q662, Q663		2SC2458				
	Q665		2SC3732				
	Q664		XDC124ES				
	D666		1SS252				
	D651–D653, D657, D658		HSS104–02				
	D660–D665		HSS104–02				
	D659		RD3.0ESB1				
<b>COILS AND FILTERS</b>							
	L659		LAU220K				
<b>CAPACITORS</b>							
	C692		ACH1246				
	C690		CEAS101M10				
	C693		CEAS470M25				
	C688, C689, C696, C697		CKSQYB102K50				
	C698		CEAS1R5M50				
	C691		CKSQYF103Z50				
	C694, C695		CKSQYF473Z50				
<b>RESISTORS</b>							
	All Resistors		RS1/10S□□□J				
<b>OTHERS</b>							
CN1001	JACK		AKN–209				
CN1002	JACK		AKN1028				
X651	CERAMIC RESONATOR		ASS1025				
	JACK		BKN1005				
CN156	8P SOCKET		KP200IB8L				
CN159	9P SOCKET		KP200IB9L				
<b>FL UCOM ASSY</b>							
<b>SEMICONDUCTORS</b>							
	IC703		M5218AP				
	IC702		M66320FP				
	IC701		PDG136B				
	Q702, Q705–Q708, Q710		2SC2458				
	Q775, Q776		2SC2458				
	Q711		XDA124ES				
	Q709		XDA143ES				
	Q701		XDC124ES				
	Q704		XDC143ES				
	D711–D714, D717–D720		AEL1100				
	D723–D726, D735–D737, D739		AEL1100				
	D745–D756		AEL1100				
	D734		BR3361XJ65A				
<b>LOGIC ASSY</b>							
<b>SEMICONDUCTORS</b>							
			IC1700				
			IC1701				
			Q1700				
			Q1701, Q1703				
			Q1702, Q1705				
			Q1704				
			D1700–D1705				
<b>CAPACITORS</b>							
			C1701				
			C1700				
			C1702, C1704				
			C1703				
<b>RESISTORS</b>							
	All Resistors						
<b>OTHERS</b>							
	CN38	CONNECTOR (7P)					
<b>VIDEO ASSY</b>							
<b>CAPACITORS</b>							
			C710				
			C712, C776				

Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	All Resistors		RD1/8PM□□□□J
<b>OTHERS</b>			
CN1	PIN JACK (1P) PLUG 5-P	AKB7011 KM250MA5	
<b>PHOTO DIODE ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC2602 IC2601 IC2603 Q2602 Q2601	PD410PI PFC502 SBX8025-H 2SC2712 2SK302	
<b>COILS AND FILTERS</b>			
	L2601	LAU221K	
<b>CAPACITORS</b>			
	C2602 C2604 C2607 C2605 C2603 C2601, C2606	CCSQCH181J50 CCSQCH820J50 CEAL470M6R3 CKSQYB103K50 CKSQYB473K50 CKSQYF104Z25	
<b>RESISTORS</b>			
	All Resistors	RS1/10S□□□□J	
<b>OTHERS</b>			
	LED HOLDER (PLS)	AMR7040	
<b>RF AMP ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC2501 IC2502, IC2504 D2501-D2503	CXA1600P TC7SU04F 1SS352	
<b>COILS AND FILTERS</b>			
	L2501, L2502	LAU221K	
<b>CAPACITORS</b>			
	TC2501 C2520 C2514 C2501 C2508 C2503 C2504 C2507 C2513 C2502, C2506	ACM7001 CCSQCH150J50 CCSQCH681J50 CEAL100M6R3 CEAL101M6R3 CEAL2R2M35 CEALR10M50 CKSQYB103K50 CKSQYB104K25 CKSQYB473K50	
<b>RESISTORS</b>			
	All Resistors	RS1/10S□□□□J	
<b>OTHERS</b>			
	X2501 CERAMIC RESONATOR	ASS7005	

Mark	No.	Description	Parts No.
<b>AMP ASSY C, S FAN_CN.</b>			
<b>SEMICONDUCTORS</b>			
	IC301 Q303-Q306 Q381, Q382 Q301, Q302, Q307, Q308 D301-D308, D381-D386	UPC4570C 2SA1145 2SC2240 2SC2705 1SS252	
	D309-D312	MTZJ3.3	
<b>CAPACITORS</b>			
	▲ C385 (0.01 $\mu$ F/150V) C307-C310 C383, C384 C305, C306 C301, C302, C311, C312	ACG1005 CCCSL151K500 CEAS101M25 CEAS101M50 CEAS2R2M50	
<b>RESISTORS</b>			
	▲ R369, R370 (0.33 $\Omega$ , 5W) R333, R334 ▲ R395, R396 ▲ R355-R358 ▲ R381-R384	ACN-139 RD1/2PM392J RD1/4PMF101J RD1/4PMF151J RD1/4PMF222J	
	▲ R313-R316 ▲ R321-R324 ▲ R329-R332 ▲ R311, R312 ▲ R351-R354	RD1/4PMF270J RD1/4PMF511J RD1/4PMF680J RD1/4PMF821J RFA1/4PS470J	
	▲ R347-R350, R363-R366 ▲ R371, R372 R397 Other Resistors	RFA1/4PS4R7J RS2LMF100J RS2LMF104J RD1/8PM□□□□J	
<b>OTHERS</b>			
	CABLE HOLDER (8P) CN301 CONNECTOR (7P) CN303 CONNECTOR (3P)	AKT1081 KPC7 KPE3	
<b>AMP ASSY 200W</b>			
<b>SEMICONDUCTORS</b>			
	IC201 Q203-Q206, Q213, Q214 Q281, Q282 Q201, Q202, Q207, Q208 Q211, Q212	UPC4570C 2SA1145 2SC2240 2SC2705 2SC2705	
	D201-D208, D213, D214 D219, D220, D281-D286 D215-D218 D209-D212	1SS252 1SS252 MTZJ22D MTZJ3.3	
<b>CAPACITORS</b>			
	C285 (0.01 $\mu$ F/150V) C213-C216 C207-C210 C283, C284 C205, C206	ACG1005 CCCSL151K500 CCCSL560K500 CEAS101M25 CEAS101M50	
	C201, C202, C211, C212 C281, C282 C217-C220 C203, C204	CEAS2R2M50 CEAS2R2M50 CFTXA104J50 CKCYB471K50	

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>RESISTORS</b>							
VR201, VR202			VRTS6HS102	C1906, C1909, C1912, C1936, C1937			CEJA2R2M50
R267-R270	(0.33Ω, 5W)		ACN7001	C1943			CEJA2R2M50
R233, R234			RD1/2PM562J	C1976, C1993			CEJAR15M50
R295, R296			RD1/4PMF101J	C1940			CEJAR22M50
R221-R224			RD1/4PMF102J	C1972, C1974, C1989, C1991			CEJAR47M50
R255-R258			RD1/4PMF151J	C1941			CEJAR68M50
R213-R216			RD1/4PMF270J	C1932, C1933, C1938			CFTYA103J50
R243-R246			RD1/4PMF271J	C1970, C1971, C1987, C1988			CFTYA104J50
R251-R254			RD1/4PMF470J	C1978, C1995			CFTYA154J50
R229-R232			RD1/4PMF680J	C1918, C1919			CFTYA184J50
R211, R212			RD1/4PMF821J	C1939			CFTYA333J50
R281-R288			RD1/4PMFL222J	C1968			CFTYA474J50
R239-R242			RF1/4PS101J	C1959			CFTYA563J50
R247-R250, R259-R266			RF1/4PS4R7J	C1950, C1955-C1958, C1998			CFTYA823J50
R235, R236			RN1/4PC3001F	C1917, C1962, C1963, C2009-C2011			CKSQYB104K25
R237, R238			RN1/4PC8200F	C2015, C2016			CKSQYB473K25
R271, R272			RS2LMF100J	C1922, C1923			CQMA102J50
Other Resistors			RD1/8PM□□□J	C2004			CQMA222J50
				C1979			CQMA223J50
				C1944, C1945, C1949			CQMA332J50
<b>OTHERS</b>							
CABLE HOLDER (8P)			AKT1081	C1928, C1929			CQMA362J50
CN204, CN205 4P PLUG			KM200LA4	C1980			CQMA473J50
CN203 CONNECTOR (4P)			KPE4	C1964			CQMA681J50
CN201 CONNECTOR (5P)			KPE5	C1924, C1925			CQMA682J50
				C2001			CQMA822J50
				C2002			CQPA221J100
<b>DOL. PRO. MOD. 1020</b>							
<b>SEMICONDUCTORS</b>							
IC1908			LA2785	C1928, C1929			CQMA362J50
IC1901-IC1906			NJM4558M-D	C1980			CQMA473J50
IC1907			PMC001A	C1964			CQMA681J50
IC1909			TC74HC193AF	C1924, C1925			CQMA682J50
Q1904			2SC2712	C2001			CQMA822J50
Q1901			2SD468	C2002			CQPA221J100
Q1902, Q1903			2SK208				
D1902, D1904-D1906, D1908, D1909			1SS226				
D1903			1SS352				
D1910			RD5.1M-B2				
D1901			RD9.1M-B3				
<b>COILS AND FILTERS</b>							
F1901			ATF1102				RS1/10S□□□
L1901			LCTA330J3225				
<b>CAPACITORS</b>							
C1951-C1954 (0.082μF/25V)			ACG1050				
C2017, C2018			CCSQCH100D50				
C1901-C1903			CCSQCH101J50				
C2000			CCSQCH181J50				
C2013, C2014			CCSQCH300J50				
C1977, C1994			CEANL3R3M50				
C1973, C1975, C1990, C1992			CEANL4R7M50				
C2006			CEANP330M25				
C1965-C1967			CEAS100M50				
C2008			CEAS101M10				
C1904, C1905			CEAS101M16				
C1948			CEAS221M10				
C1916, C1947, C1981, C1986			CEAS221M16				
C2007			CEAS330M35				
C1915, C1946, C1960, C1961, C1969			CEAS470M16				
C2012			CEJA010M50				
C1908, C1911, C1914, C1920, C1921			CEJA100M16				
C1926, C1927, C1930, C1931, C1942			CEJA100M16				
C1982-C1985, C1996, C1997, C1999			CEJA100M16				
C2003, C2005			CEJA100M16				

## 5. DISASSEMBLY

### 5.1 HOW TO REMOVE THE PCB ASSY

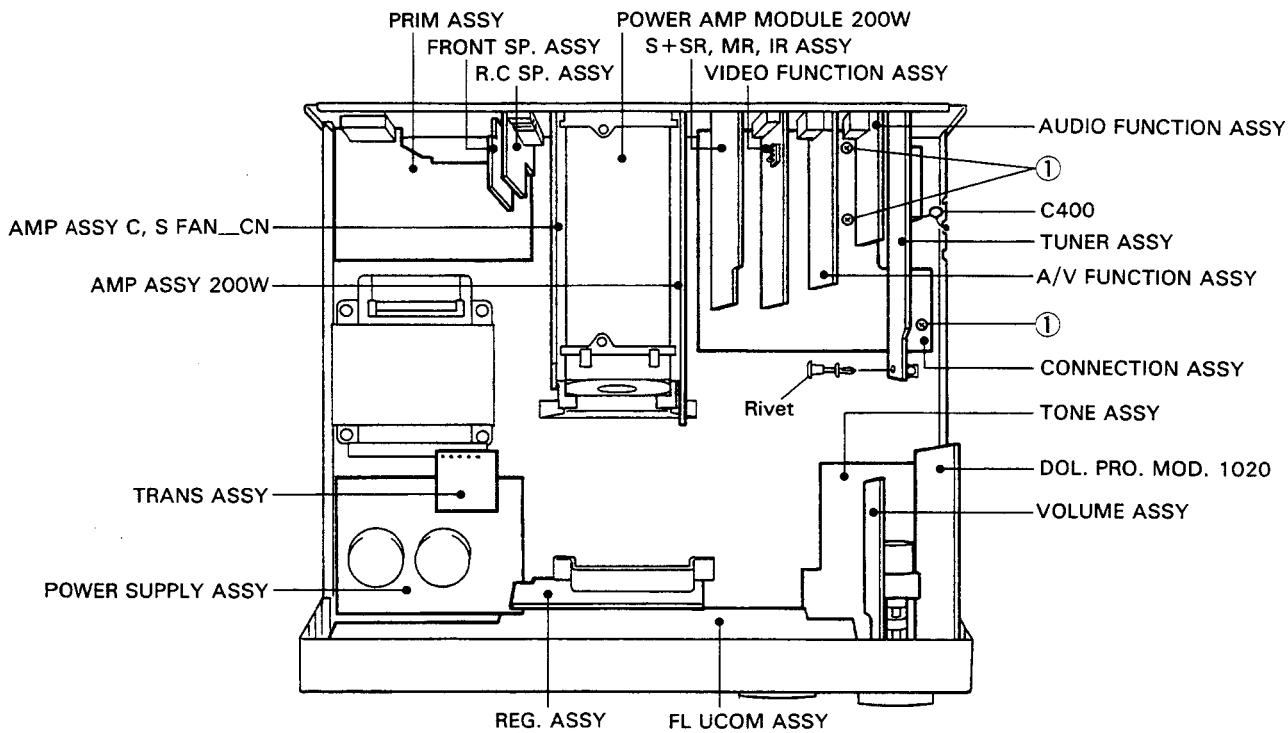


Fig. 5-1

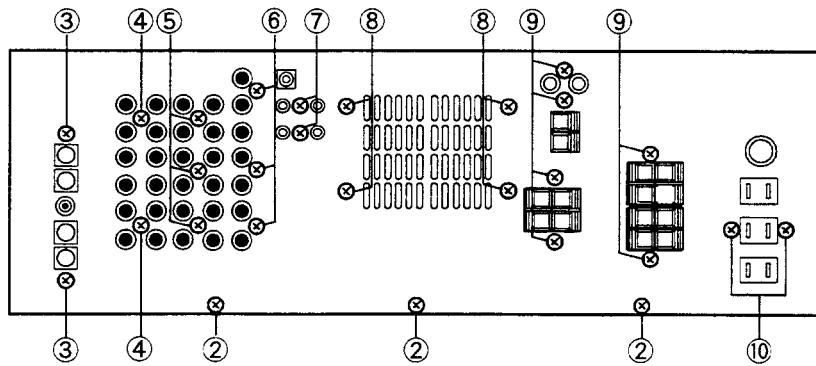


Fig. 5-2

#### ● TUNER Assy

1. Remove the capacitor (C400) (chassis side).
2. Remove the rivet, and then remove the screw ③ from the rear panel side.

#### ● AUDIO FUNCTION Assy, A/V FUNCTION Assy, VIDEO FUNCTION Assy and S+SR, MR, IR Assy

1. Remove the screws ② to ⑧ from the rear panel side.
2. Pull the rear panel towards you, and remove the pin jacks of the PCB assemblies from the pin jack holes of the rear panel.
3. Raise each PCB assembly to remove it.
4. When removal is difficult even after the screws ② to ⑧ have been removed, also remove the screws ⑨ and ⑩.

#### ● CONNECTION Assy

1. After removal of the capacitor (C400), remove the screws ② to ⑧. When removal is difficult even after the screws ② to ⑧ have been removed, also remove the screws ⑨ and ⑩.
2. Remove the rivet and screw ①.
3. Remove the CONNECTION assy from the PCB holder.

## 5.2 FRONT PANEL SECTION

1. Remove the BALANCE knob.
2. Remove the screws ① fixing both front panel L/R sides and the screw ② fixing the front panel bottom side.
3. Remove the rivet and remove the DOL. PRO. MOD. 1020 PCB.
4. Remove the MASTER VOLUME knob and screw ③.
5. Remove the screw ④ and then remove the volume holder.
6. Press the hook at the bottom side of the front panel to disengage the lock with the chassis, and quietly pull the front panel to the front.

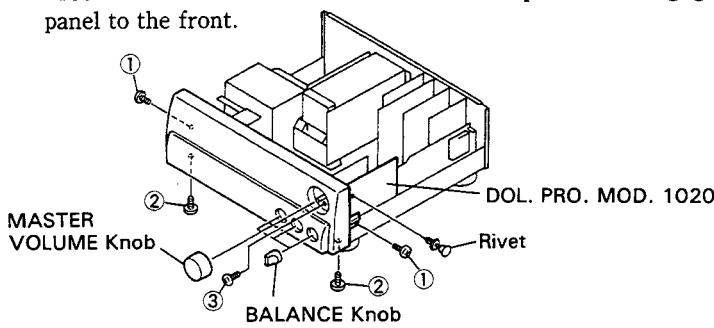


Fig. 5-3

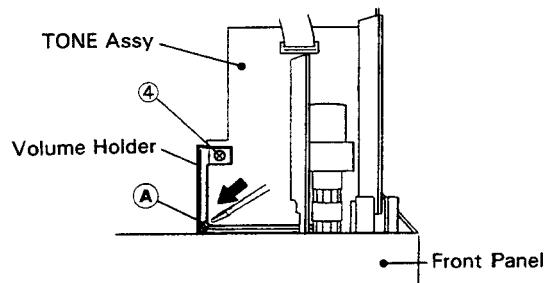


Fig. 5-4

## 6. PCB ASSY DIAGNOSIS

For diagnosis of the standing PCB assemblies of Fig. 5-1, diagnosis can be executed when one of the following PCB assemblies is removed.

PCB assy to be diagnosed	PCB assy which may be removed from the CONNECTION assy	Remarks
AUDIO FUNCTION Assy	● VIDEO FUNCTION Assy	● The AUDIO FUNCTION assy and the A/V FUNCTION assy operate as a pair. When either one is removed, no operation is executed.
A/V FUNCTION Assy	● S+SR, MR, IR Assy ● TUNER Assy	● When the VIDEO FUNCTION assy and the S+SR, MR, IR assy are removed from the CONNECTION assy, the earth (ADG) line is interrupted, so that a separate single wire must be prepared and the earth line must be connected. Connect the 2P, L-type terminal of the VIDEO FUNCTION assy and part A of the CONNECTION assy with a single wire. (Refer to Figs. 6-1 and 6-2)
VIDEO FUNCTION Assy	● AUDIO FUNCTION Assy	● The VIDEO FUNCTION assy and the S+SR, MR, IR assy operate as a pair. When either one is removed, no operation is executed.
S+SR, MR, IR Assy	● A/V FUNCTION Assy ● TUNER Assy	● As the earth (GND) for the AUDIO FUNCTION Assy and the A/V FUNCTION Assy is connected by a single wire, please do not disconnect the single wire. Please use an extension wire when the single wire is removed.
TUNER Assy	All PCB assemblies other than the TUNER Assy	TUNER Assy operates by itself.

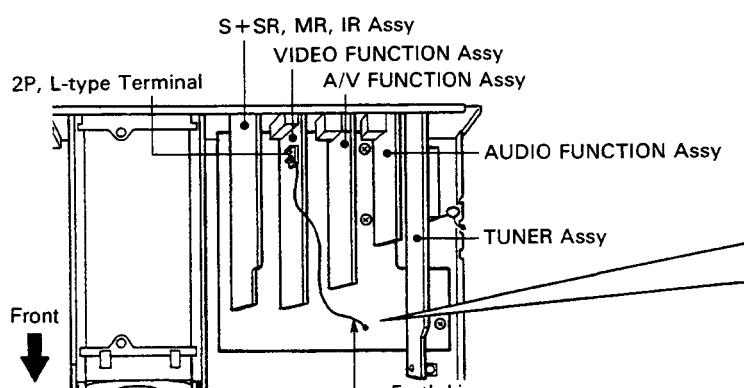


Fig. 6-1

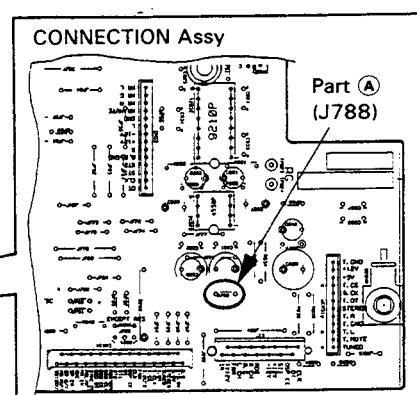


Fig. 6-2

## 7. ADJUSTMENTS

### 7.1 TUNER SECTION

1. Wiring ..... Connect the wires as shown in Fig. 7-1-1 (FM ANT. terminal:  $75\Omega$ ).
2. Preset ..... Set the VR451 to center position.
3. When the SD model is used, set the band select switch to AM: 10kHz/FM: 100kHz.

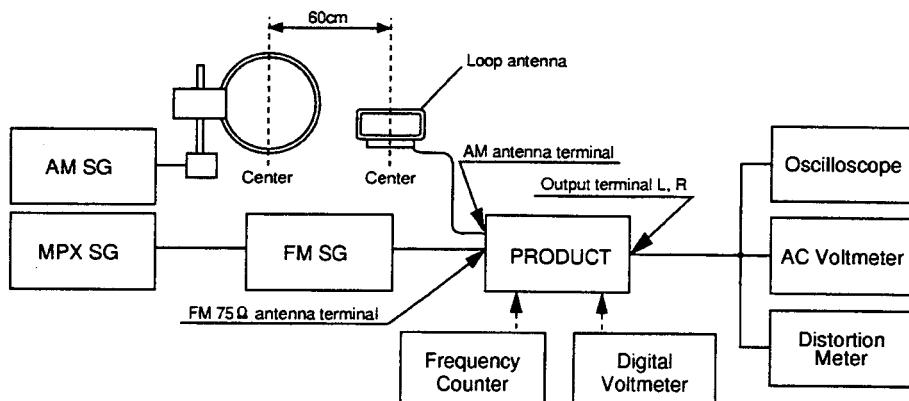


Fig. 7-1-1 AM and FM adjustment wiring diagram

#### FM Section

Note : Stereo modulation ; Main 1kHz  $L+R \pm 68.25\text{kHz}$   
Pilot 19kHz  $\pm 6.75\text{kHz}$

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Increasing front end sensitivity	98MHz	—	Weak Input	98MHz	L402, L404, T402	Set the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified.
2	Center adjustment	98MHz	—	60dB $\mu$ V	98MHz	L431	Adjust the voltage between terminals 45 and 46 to $0 \pm 50\text{mV}$ .
3	Adjusting VCO	—	OFF	60dB $\mu$ V	—	VR451	Adjust the output of terminal 44 to $76.0\text{kHz} \pm 1.0\text{kHz}$ .
4	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	60dB $\mu$ V	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification.
5	Checking lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dB $\mu$ V ( $^{+1\text{dB}}_{-2\text{dB}}$ )	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting.

#### AM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Adjusting lighting level of TUNED IND.	1000kHz	—	—	1000kHz	VR431	Adjust the lighting level of TUNED IND. to $55\text{dB}\mu\text{V/m} \pm 3\text{dB}$ .

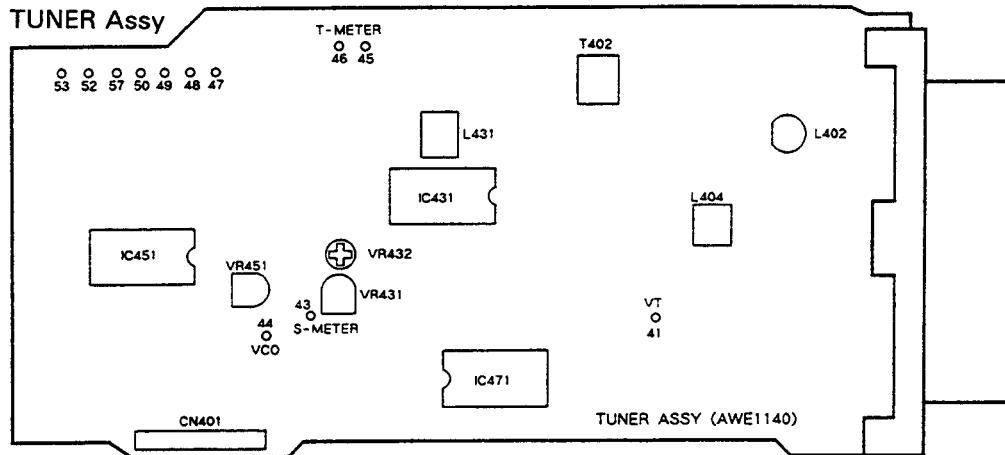


Fig. 7-1-2 Adjustment Points

## 7.2 IDLE CURRENT ADJUSTMENT

1. Connect a DC voltmeter to CN205 and CN204 of the AMP ASSY 200W.  
 L ch: Between pins 1 and 2 and between pins 3 and 4 of CN205  
 R ch: Between pins 1 and 2 and between pins 3 and 4 of CN204
2. Turn VR201 (L ch) and VR202 (R ch) all the way to the left.
3. Switch on the power when the set is completely cold. At the time, bring the SPEAKERS terminals to no-load condition.
4. Wait 5 minutes, and then turn VR201 (L ch) and VR202 (R ch) to the right to set the voltage to  $1 \text{ mV} \pm 0.5\text{mV}$  each.

*Note: As the temperature rises with the passage of time, adjustment should be executed quickly.*

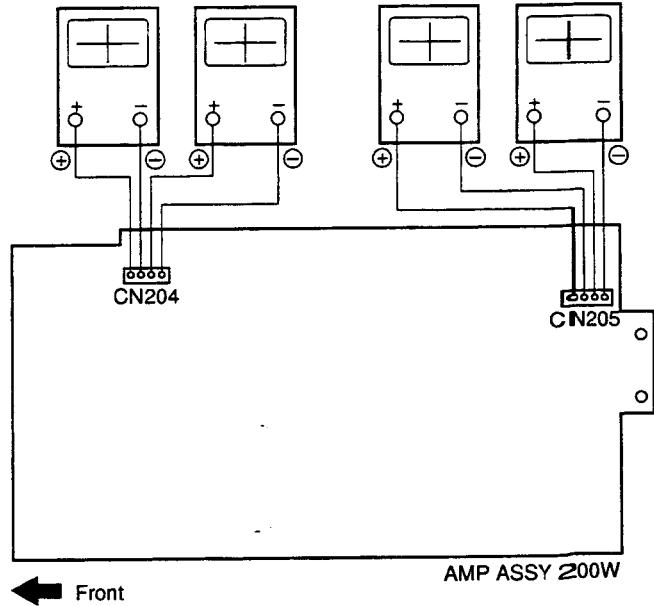
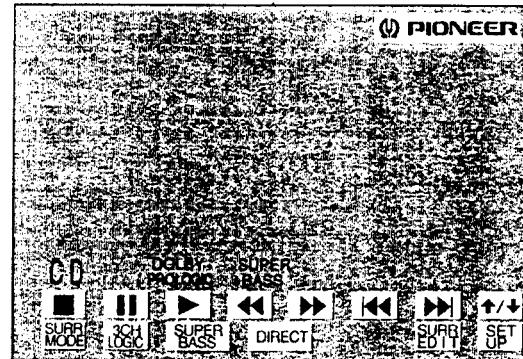
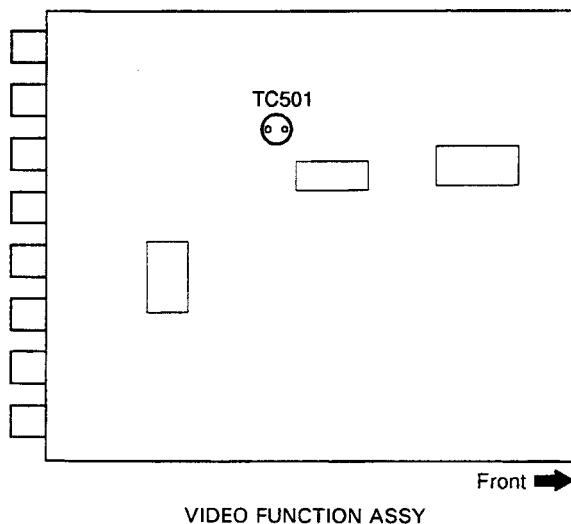


Fig. 7-2-1 Idle Current Adjustment

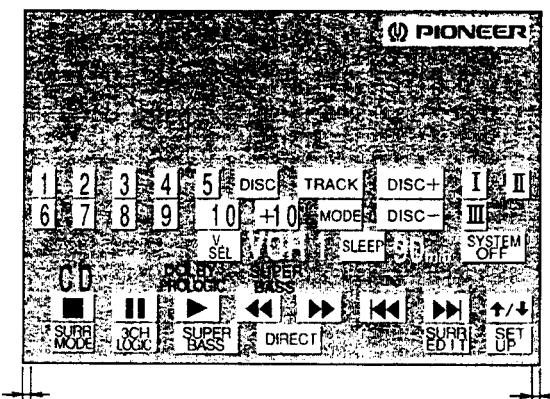
### 7.3 GUI SCREEN DISPLAY POSITION ADJUSTMENT

1. Connect a monitor TV to the VIDEO OUT terminal.
2. Switch on the power supply.
3. Set the function to CD.
4. Press the GUI MODE key switch to GUI mode (screen 1).
5. Use the MULTI-JOG dial to move the  mark (cursor) on the screen to the  key on the screen.
6. Press the GUI ENTER key. (The condition of the screen 2 will be reached.)
7. While screen 2 is being displayed (it goes out after about 10 to 15 sec.), adjust with TC501 of the VIDEO FUNCTION assy so that the margin on the screen becomes the same on the left and the right.

*Note: When the GUI screen goes out, it can be displayed again by turning the MULTI-JOG dial.*



Screen 1

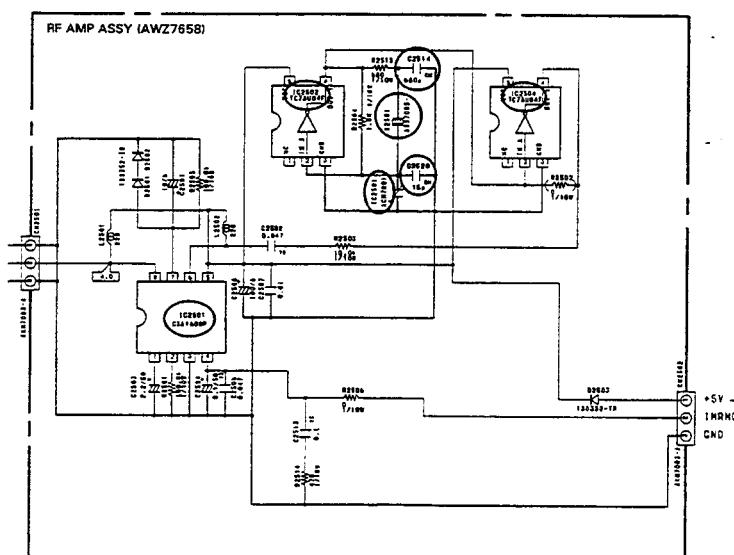


Adjust for the same margin at the left and the right.

Screen 2

### 7.4 REGARD TO PARTIAL EXCHANGE OF THE RF AMP ASSY

For exchange of the part marked by  in Fig. 1, exchange together with the PCB assy.

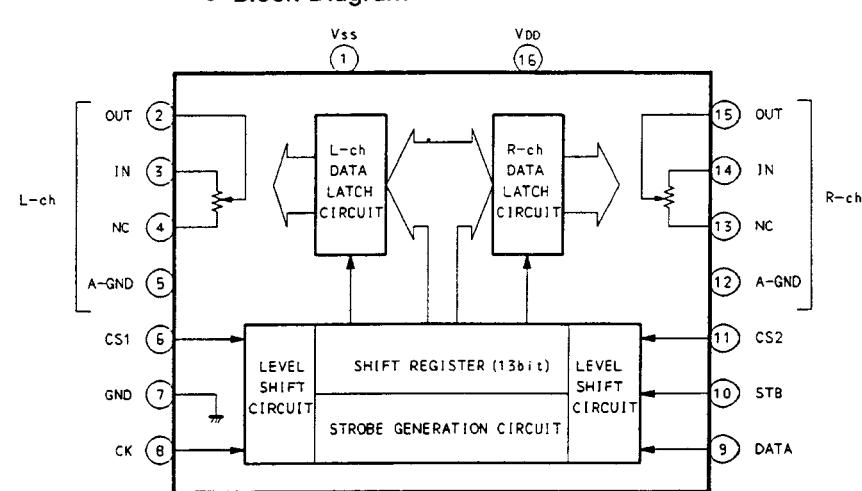
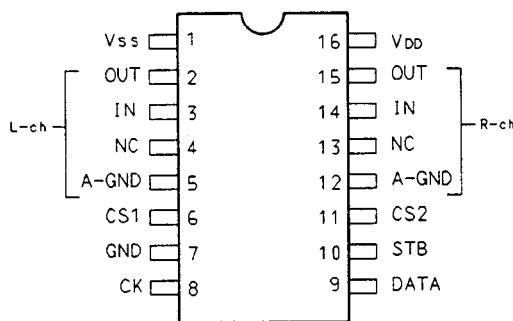


## 8. IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

### ■ TC9210P (IC621: CONNECTION ASSY) (VSX-79 ONLY)

- Electronic Volume IC
- Pin Assignment (Top View)



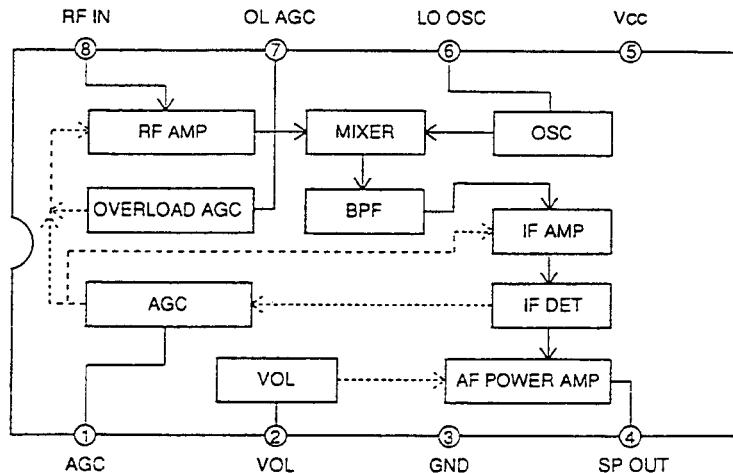
- Pin Function

No.	Symbol	Pin Name	Description
1	Vss	Power supply (-)	2 Used power supply VDD = 6.0 to -17V GND = 0V Vss = -6.0 to -17V
7	GND	Digital GND	
16	VDD	Power supply (+)	1 Used power supply VDD = 6.0 to 18V GND = Vss = 0V
2	L-OUT	Volume output	—
3	L-IN	Volume input	—
4	NC	NO CONNECTION	—
5	L-A-GND	Analog GND	—
6	CS1	Chip select input	The chip selection code is switched, and up to four units can be used at the same time.
8	CK	Clock input	Data transfer clock input
9	DATA	Data input	Serial data input for volume setting
10	STB	Strobe input	Strobe input for data writing
11	CS2	Chip select input	The chip selection code is switched, and up to four units can be used at the same time.
12	R-A-GND	Analog GND	—
13	NC	NO CONNECTION	—
14	R-IN	Volume input	—
15	R-OUT	Volume output	—

## ■ CXA1600P (IC2501: RF AMP ASSY)

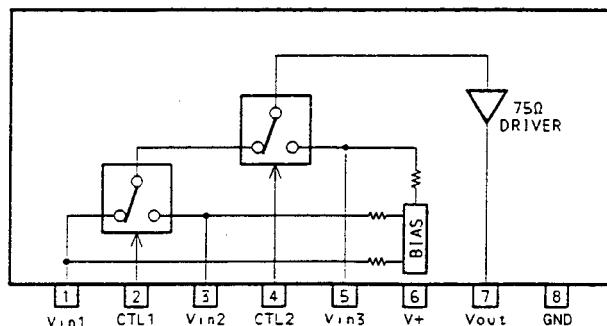
CXA1600P is a 1-chip AM radio combining a power amplifier and an electronic volume adjustment in an 8-pin package, and it includes all functions from the front end to the power amplifier.

- 8-pin, 1-Chip Radio
- Block Diagram



## ■ NJM2243L [IC508, IC509 (VSX-79 ONLY): VIDEO FUNCTION ASSY]

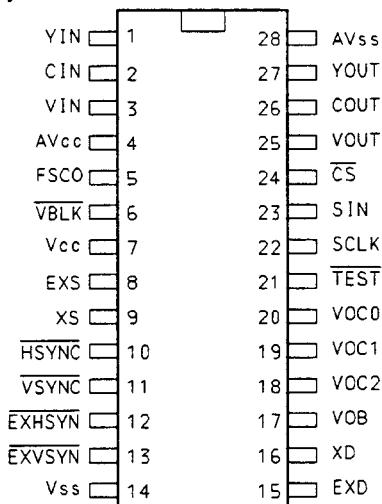
- Video Switch
- Block Diagram



NJM2243L INPUT CONTROL-OUTPUT SIGNAL		
CTL1	CTL2	OUTPUT SIGNAL
L	L	Vin1
H	L	Vin2
L/H	H	Vin3

## ■ PD6157A (IC506: VIDEO FUNCTION ASSY)

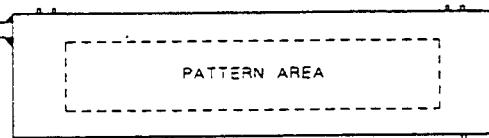
- ON-Screen Display Controller
- Block Diagram



## 9. FL INFORMATION

■ AAV1196(V701)

### PIN LOCATION

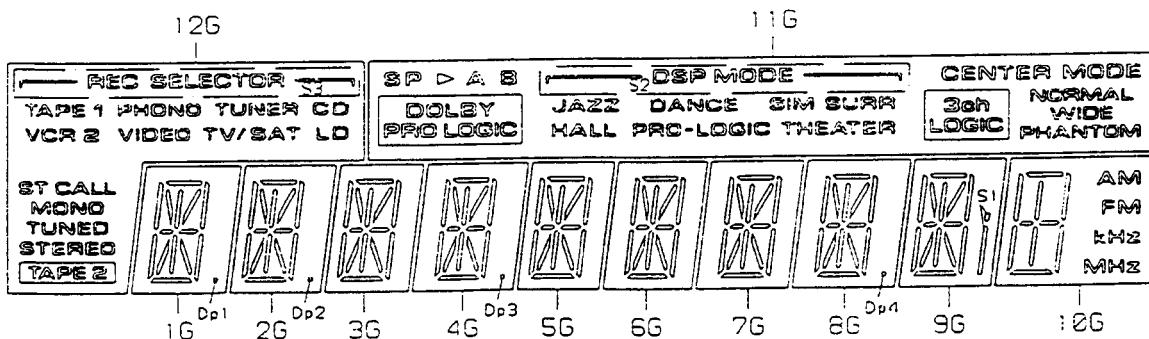


### PIN CONNECTION

PIN NO.	1 2 3 4 5 6 7 8 9 0	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4
CONNECTION	F F N N I I 2 3 4 5 6 7 8 9 0 1 2 N N N N N N N N N N 1 1 1 1 1 1 P P P P P P P P P P P P N N F F	2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

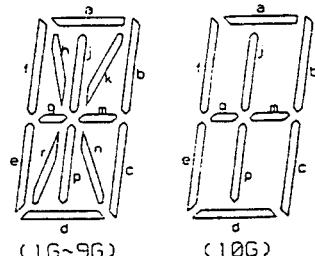
NOTE  
 1) F1, F2 --- Filament  
 2) NP ----- No pin  
 3) NX ----- No extend pin  
 4) DL ----- Datum Line  
 5) 1G~12G --- Grid

### GRID ASSIGNMENT



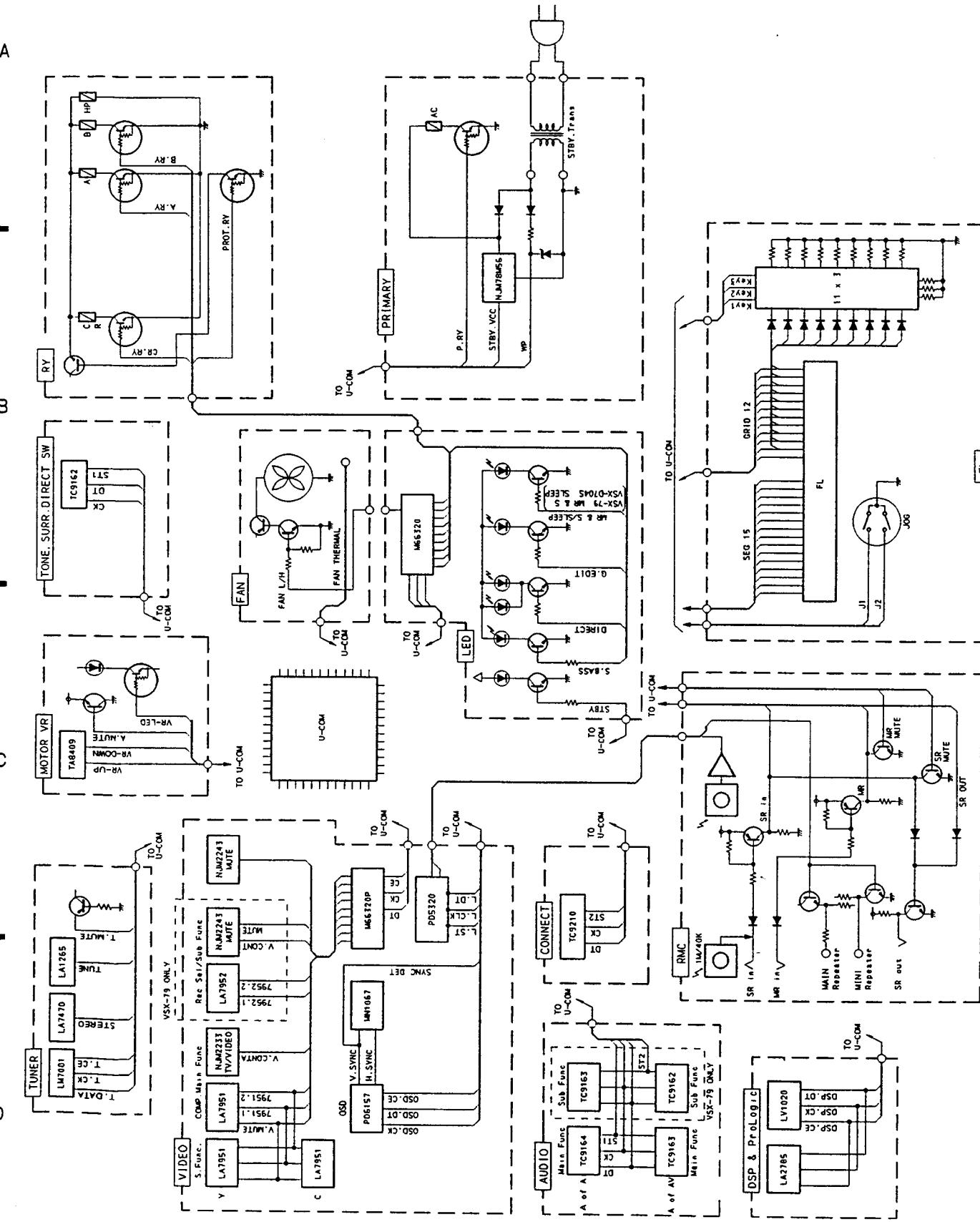
### ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P 1	a	a	a	a	a	a	a	a	a		PHANTOM	ST CALL
P 2	j	j	j	j	j	j	j	j	j		DOLBY PRO LOGIC	MONO
P 3	k	k	k	k	k	k	k	k	k		AM	WIDE
P 4	h	h	h	h	h	h	h	h	h		FM	NORMAL
P 5	b	b	b	b	b	b	b	b	b		3ch LOGIC	VIDEO
P 6	f	f	f	f	f	f	f	f	f		CENTER MODE	VCR 2
P 7	g	g	g	g	g	g	g	g	g		PRO-LOGIC THEATER	-
P 8	m	m	m	m	m	m	m	m	m		HALL	CD
P 9	c	c	c	c	c	c	c	c	c		3IM SURR	TUNER
P10	e	e	e	e	e	e	e	e	e		DANCE	PHONE
P11	n	n	n	n	n	n	n	n	n		KHZ	JAZZ
P12	r	r	r	r	r	r	r	r	r		SP >	TUNED
P13	p	p	p	p	p	p	p	p	p		A	STEREO
P14	c	c	c	c	c	c	c	c	c		B	TAPE 2
P15	Dp1	Dp2	-	Dp3	-	-	-	Dp4	S1	-	S2	S3



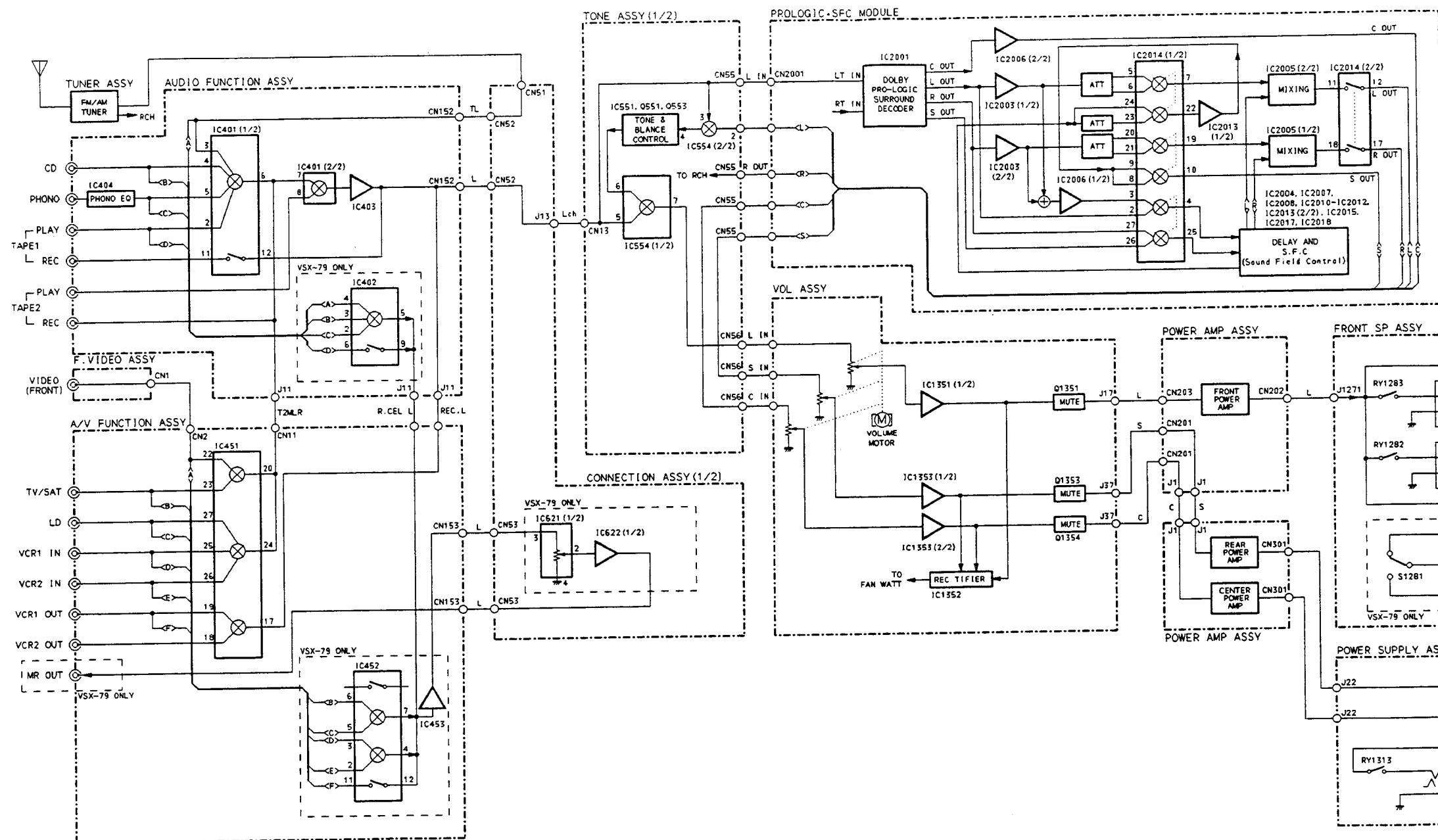
## 10. BLOCK DIAGRAM

## 10.1 MICROCOMPUTER SECTION

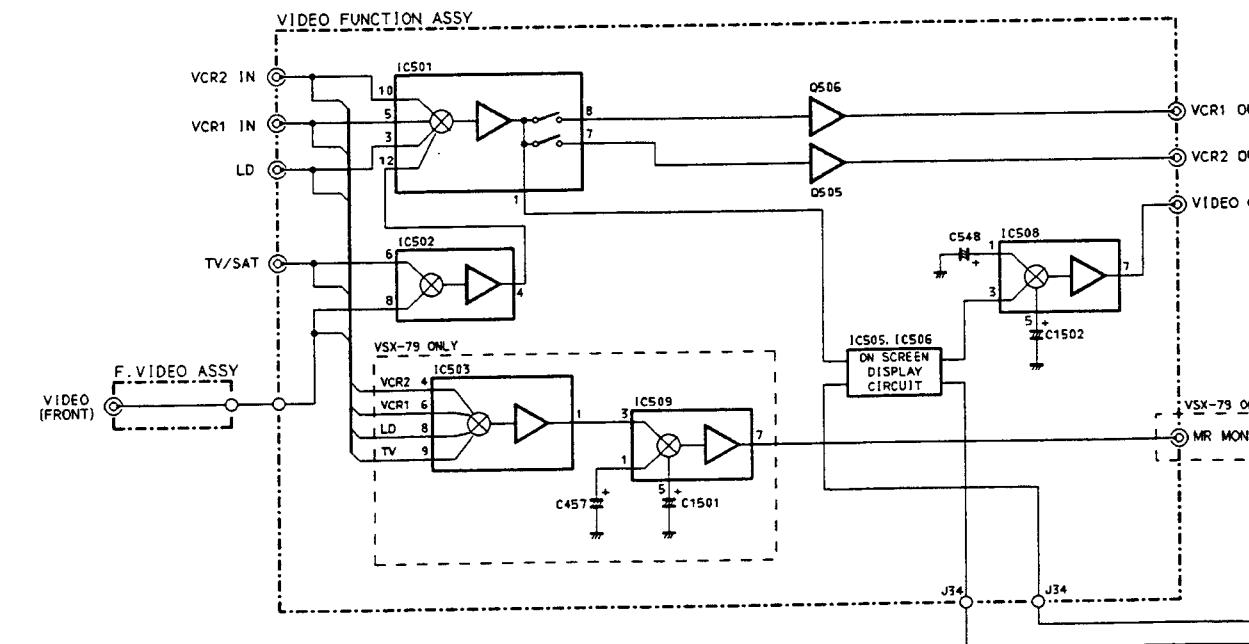


## 10.2 AUDIO AND VIDEO SECTION

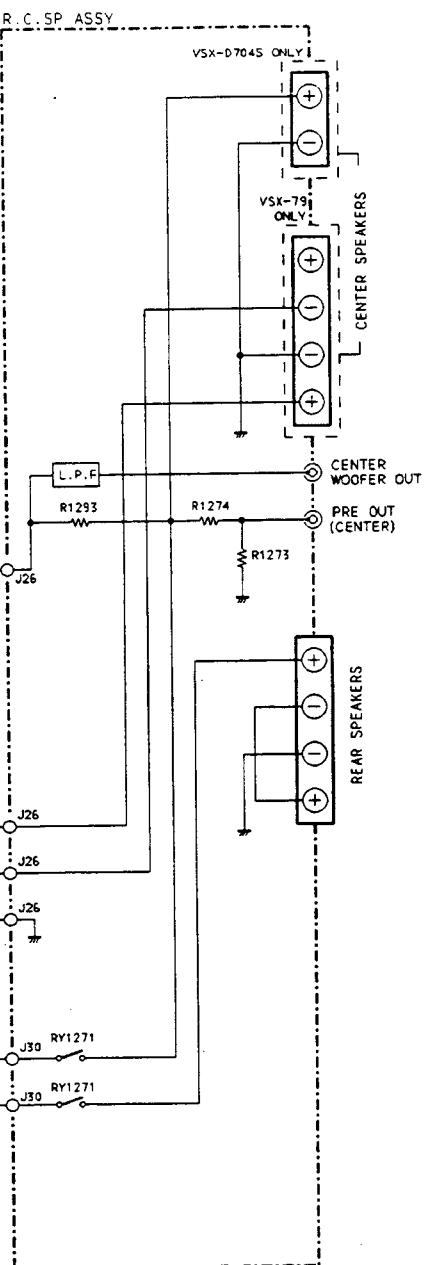
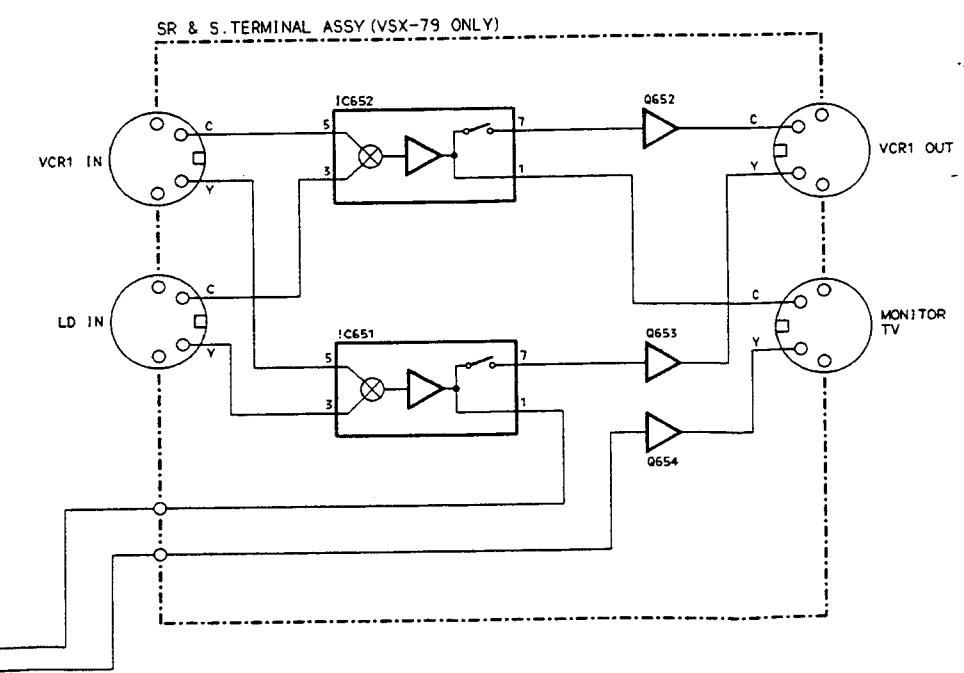
A



B



C



D

## 11. FOR VSX-D704S/KC, SD AND VSX-79/KU/CA

## NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 $\Omega$   $\rightarrow$  56  $\times$  10<sup>1</sup>  $\rightarrow$  561 RD1/8PM 5 6 1 J

47k $\Omega$   $\rightarrow$  47  $\times$  10<sup>3</sup>  $\rightarrow$  473 RD1/4PS 4 7 3 J

0.5 $\Omega$   $\rightarrow$  0R5 RN2H 0 R 5 K

1 $\Omega$   $\rightarrow$  010 RS1P 0 1 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k $\Omega$   $\rightarrow$  562  $\times$  10<sup>1</sup>  $\rightarrow$  5621 RM1/4PC 5 6 2 1 F

Mark	Symbol & Description	Part No.				Remarks
		VSX-D704S/ KU	VSX-D704S/ KC	VSX-D704S/ SD	VSX-79/ KU/CA	
NSP	Center panel	AAK7152	AAK7152	AAK7152	AAK7151	
	Front panel	AMB7209	AMB7209	AMB7209	AMB7210	
	Fuse holder bracket	Not used	Not used	ANG-528	Not used	*
	Barrier (PVC)	Not used	Not used	AEC1412	Not used	*
	65 label	ORW1069	Not used	Not used	ORW1069	
	Screw (for slide switch)	Not used	Not used	VMZ26P040FZK	Not used	*
	Packing case	AHD7138	AHD7138	AHD7139	AHD7140	
	Operating instructions (English)	ARB7035	ARB7035	ARB7035	ARB7036	
	Operating instructions (French)	Not used	ARC7058	Not used	Not used	
	Operating instructions (Chinese/Spanish)	Not used	Not used	ARC7059	Not used	

Note \*: Refer to pages 5-7.

## ■ CONTRAST OF MISCELLANEOUS PARTS

VSX-D704S/KC, SD, VSX-79/KU/CA and VSX-D704S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX-D704S/ KU	VSX-D704S/ KC	VSX-D704S/ SD	VSX-79/ KU/CA	
NSP	BIC SIGNAL assy	AWK7136	AWK7136	AWK7137	AWK7138	
	REG. assy	AWZ7617	AWZ7617	AWZ7617	AWZ7618	
	PRIM assy	AWZ7620	AWZ7620	AWZ7621	AWZ7620	
	FRONT SP. assy	AWZ7623	AWZ7623	AWZ7623	AWZ7624	
	R.C SP. assy	AWZ7626	AWZ7626	AWZ7626	AWZ7627	
	CONNECTION assy	AWZ7630	AWZ7630	AWZ7630	AWZ7631	
	SMALL SIGNAL assy	AWK7143	AWK7143	AWK7143	AWK7144	
	AUDIO FUNCTION assy	AWZ7634	AWZ7634	AWZ7634	AWZ7635	
	A/V FUNCTION assy	AWZ7636	AWZ7636	AWZ7636	AWZ7637	
	VIDEO FUNCTION assy	AWZ7638	AWZ7638	AWZ7638	AWZ7639	
$\Delta$	S+SR, MR, IR assy	AWZ7645	AWZ7645	AWZ7645	AWZ7646	
	FRONT assy	AWK7148	AWK7148	AWK7148	AWK7149	
	FL UCOM assy	AWZ7649	AWZ7649	AWZ7649	AWZ7650	
	S1 Voltage selector	Not used	Not used	AKX-507	Not used	*
	S2 Voltage selector	Not used	Not used	AKX1004	Not used	*
	S3 Slide switch (for channel step)	Not used	Not used	ASH1044	Not used	*
	S4 Slide switch (PAL $\leftrightarrow$ NTSC)	Not used	Not used	ASH1044	Not used	*
	T1 Power transformer (AC120V)	ATS7058	ATS7058	Not used	ATS7058	
	T1 Power transformer (AC110V/120-127V/220V/240V)	Not used	Not used	ATS7059	Not used	
	C1 Capacitor (0.1 $\mu$ F/250V)	Not used	Not used	ACE-507	Not used	*
$\Delta$	C2, C3 Capacitor	Not used	Not used	CKDYX103M25	Not used	*
	C4 Capacitor	Not used	Not used	CEAS100M50	Not used	*
	FU1 Fuse (10A/125V)	AEK1035	AEK1035	Not used	AEK1035	
	FU1, FU2 Fuse (5A/125V)	Not used	Not used	AEK-126	Not used	
	Fuse holder	Not used	Not used	AKR1005	Not used	
	AC power cord	ADG1146	ADG1146	ADG1051	ADG1146	
	Strain relief	AEP-113	AEP-113	AEC-882	AEP-113	
	Rear panel	ANC7194	ANC7194	ANC7195	ANC7196	
	Display panel	AAK7147	AAK7147	AAK7147	AAK7148	

Note \*: Refer to pages 5-7.

## ■ CONTRAST OF PCB ASSEMBLIES

## REG. Assy

AWZ7618 and AWZ7617 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7617	AWZ7618	
	R1254, R1255, R1280	RS2LMF180J	Not used	
	R1256	RD1/4PMF122J	RD1/4PMF751J	
	R1264	Not used	RT5PZ680K	*
	R1299	Not used	RT5PD100K	*

Note \*: Refer to SCH-8.

## A/V FUNCTION Assy

AWZ7637 and AWZ7636 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7636	AWZ7637	
$\Delta$	IC452	Not used	TC9162AN	*
	IC453	Not used	XRA4558N-P	*
	Q451	Not used	XDA124ES	*
	Q452, Q453	Not used	2SC2878	*
	C477, C478	Not used	CKSQYB103K50	*
	C479, C480	Not used	CEAS2R2M50	*
	C485, C486	Not used	CEAS4R7M50	*
	C488	Not used	CCSQCH102J50	*
	C492, C493	Not used	CCSQCH101J50	*
	R471, R486-R488	Not used	RS1/10S102J	*
$\Delta$	R472, R473, R481, R482	Not used	RS1/10S222J	*
	R475-R478	Not used	RS1/10S104J	*
	R479, R480	Not used	RS1/10S224J	*
	2P Pin jack	Not used	AKB7019	*
	CN153	KP200IB10L	Not used	
$\Delta$	CN153	Not used	KP200IB14L	*

Note \*: Refer to SCH-2.

**PRIM Assy**

AWZ7621 and AWZ7620 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7620	AWZ7621	
NSP	T51 R52 KN51	ATT7006 ACN-208 ANK-142	ATT7007 Not used Not used	

**FRONT SP. Assy**

AWZ7624 and AWZ7623 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7623	AWZ7624	
	S1281 CN26 Connector (4P) CN26 Connector (7P) CN8004 Speaker terminal 8-P	Not used KPC4 Not used AKE1048	AKX1033 Not used KPC7 AKE1036	* *

Note \*: Refer to SCH-5.

**VIDEO FUNCTION Assy**

AWZ7639 and AWZ7638 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7638	AWZ7639	
	IC503 IC509 IC511 Q502 Q503	Not used Not used Not used Not used Not used	LA7952 NJM2243L TC7S32F 2SC2458 2SA1115	*
	D504 L503, L505, L509	Not used Not used	HSS104-02 LAU680J	*
	C507-C511, C543, C547, C1501 C512, C545 C524 C535, C1513 C538 C549 C1509	Not used Not used Not used Not used Not used Not used Not used	CEAS470M25 CKSQYF103Z50 CCSQCH561J50 CEAS100M50 CEAS010M50 CEANP470M25 CEAS471M10	*
	R510, R511, R535, R1503 R529 R530 R531, R1504 R533	Not used Not used Not used Not used Not used	RS1/10S102J RS1/10S681J RS1/10S222J RS1/10S104J RS1/10S391J	*
	R542 R546 R1506	Not used Not used Not used	RS1/10S103J RS1/10S750J RS1/10S472J	*
	1P Pin jack CN154 CN154	Not used KP200IB11L Not used	AKB7020 Not used KP200IB15L	*

Note \*: Refer to SCH-4.

**CONNECTION Assy**

AWZ7631 and AWZ7630 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7630	AWZ7631	
	IC621	Not used	TC9210P	*
	IC622	Not used	XRA4558	*
	D621, D622	Not used	HSS104-02	*
	C621, C622, C627, C628	Not used	CEAS100M50	*
	C629, C630	Not used	CEAS470M25	*
	C631, C632	Not used	CKCYF103Z50	*
	C633, C634	Not used	CKCYF473Z50	*
	C635, C636	Not used	CKCYB102K50	*
	R625, R626, R631, R632	Not used	RD1/8PM104J	*
	R633, R634	Not used	RD1/2PM221J	*
	R635-R637	Not used	RD1/8PM102J	*
	CN53 10P Plug	KM200IB10	Not used	
	CN53 14P Plug	Not used	KM200IB14	
	CN54 11P Plug	KM200IB11	Not used	
	CN54 15P Plug	Not used	KM200IB15	
	CN56 8P Plug	KM200IB8	Not used	
	CN56 16P Plug	Not used	KM200IB16	

Note \*: Refer to SCH-5.

**R.C SP. Assy**

AWZ7627 and AWZ7626 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7626	AWZ7627	
	Cable holder (4P)	AKT1077	Not used	
	Cable holder (7P)	Not used	AKT1080	
	CN8016 Speaker terminal 2-P	AKE1041	Not used	
	CN8016 Speaker terminal 4-P	Not used	AKE1055	*

Note \*: Refer to SCH-5.

**AUDIO FUNCTION Assy**

AWZ7635 and AWZ7634 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7634	AWZ7635	
	IC402	Not used	TC9163AN	*
	C437, C438	Not used	CKSQYF103Z50	*
	C448	Not used	CCSQCH102J50	*
	R444	Not used	RS1/10S102J	*
	6P Pin jack	AKB7013	Not used	
	4P Pin jack	Not used	AKB7014	*
	2P Pin jack	Not used	AKB7019	*

Note \*: Refer to SCH-2.

**FL UCOM Assy**

AWZ7650 and AWZ7649 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7649	AWZ7650	
	D732	Not used	HSS104-02	*

Note \*: Refer to SCH-11.

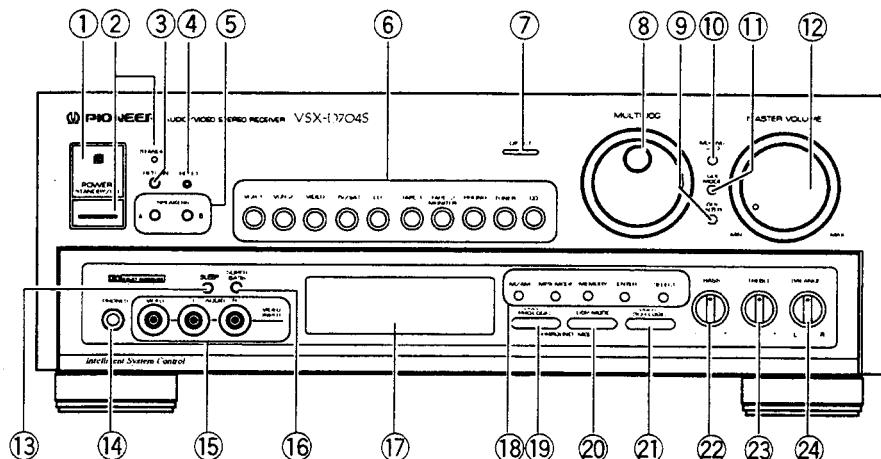
**■ PCB PARTS LIST**

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>S+SR, MR, IR ASSY (AWZ7646)</b>							
SEMICONDUCTORS				OTHERS			
IC651, IC652			LA7951		CN1001	JACK	AKN-209
IC658			LH5268AN1TLL		CN1002	JACK	AKN1020
IC657			PD5320A		CN1005, CN1006	SOCKET	AKN1028
IC656			TC74HC123AF		X651	CERAMIC RESONATOR	AKP1064
Q656, Q657, Q660			2SA1048			JACK	ASS1025
Q652-Q654			2SA1115		CN156	16P SOCKET	BKN1005
Q655, Q659, Q662, Q663			2SC2458		CN159	9P SOCKET	KP200IB16L
Q665			2SC3732				KP200IB9L
Q661, Q664			XDC124ES				
D666			ISS252				
D651-D653, D655-D658			HSS104-02				
D660-D665			HSS104-02				
D659			RD3.0ESB1				
D654			RD5.1ESB				
COILS AND FILTERS							
L659			LAU220K				
L653, L654, L656-L658			LAU820J				
CAPACITORS							
C692			ACH1246				
C681-C683			CCSQCH050C50				
C684, C686			CEAS010M50				
C655, C656, C665, C671			CEAS100M50				
C690			CEAS101M10				
C668, C669			CEAS101M25				
C1651, C663, C677-C679, C693			CEAS470M25				
C685, C687			CEAS471M10				
C688, C689, C696, C697			CKSQYB102K50				
C698			CEAS1R5M50				
C1656			CKSQYB822K50				
C666, C667, C673-C675, C691			CKSQYF103Z50				
C659, C660, C664, C670			CKSQYF104Z50				
C694, C695			CKSQYF473Z50				
RESISTORS							
R674			RD1/2PM221J				
R672, R673			RD1/2PM331J				
R657			RD1/8PM102J				
Other Resistors			RS1/10S□□□□J				

## 12. PANEL FACILITIES

Illustration shows multi-voltage model.

VSX-D704S



### ① Remote sensor

### ② POWER STANDBY/ON switch, STANDBY indicator (Multi-voltage model only)

This is the switch for electric power.

**ON** : When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY**: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

#### (Multi-voltage model only)

The STANDBY indicator lights when the power is set to STANDBY, and goes out when set to ON.

#### (Timer ON/OFF possible)

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

#### NOTE:

*When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.*

### ③ RETURN button

Press this button to return the receiver to its initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

TAPE 2 MONITOR .... OFF      MUTING ..... OFF  
SFC MODE ..... OFF      FUNCTION ..... TUNER  
SUPER BASS ..... OFF

And SPEAKERS buttons switch as follows.

Before pressing the RETURN button	After pressing
Both A and B are off	Only A is on
Only A is on	No change
Only B is on	Both A and B are on
Both A and B are on	No change

#### NOTE:

*Press the RETURN button, and the frequency last selected is received. If reception of the frequency last selected is not possible, the mode automatically switches to AUTO TUNING.*

### ④ RESET button

Use this when normal operation is not possible because of external influences such as static electricity or lightning, or when operations are not functioning even when operation buttons are pressed. Press this button to return to normal operating conditions.

(The input selector automatically switches to TUNER, and SPEAKERS button A is the only one ON.

Also, the tuner station memory, surround settings, and remote control REMOTE SET UP settings are all returned to their initial defaults.)

If you press this button when the power is ON, the unit switches to POWER STANDBY.

### ⑤ SPEAKERS buttons (A,B)

ON/OFF switches for the A and B speaker systems.

### ⑥ Input selector buttons

**VCR 1** : Press when performing playback on a first VCR unit.

**VCR 2** : Press when performing playback on a second VCR unit.

**VIDEO** : Press when performing playback on a TV camera or VCR connected to VIDEO INPUT jack on the front panel.

**TV/SAT** : Press to watch TV broadcasts from the TV tuner connected to the rear panel TV/SAT IN jacks.

**LD** : Press when performing playback on an LD player.

**TAPE 1** : Press when performing playback on an a cassette deck.

#### TAPE 2 MONITOR

: Press when performing playback on a second cassette deck and when monitoring recording.

**PHONO** : Press when playing records on a turntable.

**TUNER** : Press when listening to radio broadcasts.

**CD** : Press when playing compact discs on a CD player.

**⑦ DIRECT button\***

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry. The surround mode, super bass, and rear and center speakers are automatically switched off.

**⑧ MULTI-JOG**

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor.

**⑨ GUI ENTER button (GUI operation)**

Press to execute an operation selected with the MULTI-JOG.

**⑩ MUTING button**

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

**⑪ GUI MODE button**

Switches GUI MODE on and off.

**⑫ MASTER VOLUME control**

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

**⑬ SLEEP button**

Activates the SLEEP timer. The length changes in the following manner each time the button is pressed:

→ 90 → 60 → 30 → off →

Unit: minutes

**⑭ PHONES jack**

Connect the plug on your headphones to this jack. Set SPEAKERS A and B switches to OFF if you want to cut the sound from the speakers and listen to it only through the headphones.

**⑮ VIDEO INPUT jacks**

VIDEO components such as a VCR or TV camera, etc. can be connected.

**⑯ SUPER BASS button\***

Press this button when you want to boost the bass.

**⑰ Display section****⑱ TUNING MODE buttons****FM/AM button:**

Use this to switch between FM and AM frequency band reception.

**MPX MODE button:**

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the MONO indicator in the display section is lit.

**Auto stereo mode**

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

**Monaural mode**

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

**NOTE:**

*This button has no effect on reception of AM broadcasts.*

**MEMORY button:**

Press this button to switch to the frequency preset mode. (When GUI is ON, it does not operate.)

**ENTER button:**

Press this button when you are in the frequency preset mode, and the displayed frequency is memorized in the selected station. (Station indications stop flashing and stay lit.) (When GUI is ON, it does not operate.)

**SELECT button:**

Press this button to switch to the station mode. Then you can turn the multi-jog to select a station. (When GUI is ON, it does not operate.)

**⑯ DOLBY PRO-LOGIC button\***

Switches DOLBY PRO-LOGIC SURROUND on and off.

**⑰ DSP MODE button\***

Each time you press it, the mode and the display indications change as follows.

→ JAZZ → DANCE → SIMULATED SURROUND  
off ← PRO-LOGIC THEATER ← HALL ←

**⑲ DOLBY 3CH LOGIC button\***

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the  mark.

**⑳ BASS control**

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass.

**㉑ TREBLE control**

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble.

**㉒ BALANCE control**

Use to adjust the sound volume balance between left and right speakers.

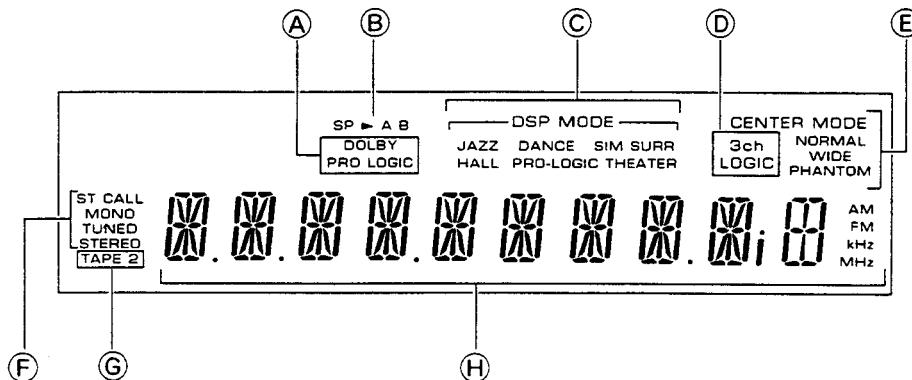
**L:** Decreases the sound on the right side.

**R:** Decreases the sound on the left side.

Usually, left and right volume levels should be the same.

\*Setting is memorized separately for each input selector button.

## DISPLAY SECTION



### Ⓐ DOLBY PRO-LOGIC indicator

### Ⓑ SP (SPEAKERS) A,B indicators

Shows which speaker system (or systems) are switched on.

### Ⓒ DSP MODE indicators

### Ⓓ DOLBY 3CH LOGIC indicator

### Ⓔ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO-LOGIC SURROUND, PRO-LOGIC THEATER and DOLBY 3CH LOGIC operation

### Ⓕ Tuning indicators

#### ST (STATION) CALL

:Press the SELECT button to switch to the station mode, and this indicator lights.

#### MONO

:Lights up when the FM MONO mode is selected with the MPX MODE button.

#### TUNED

:Lights up when a station is tuned.

#### STEREO

:Lights up when a stereo FM broadcast is being received.

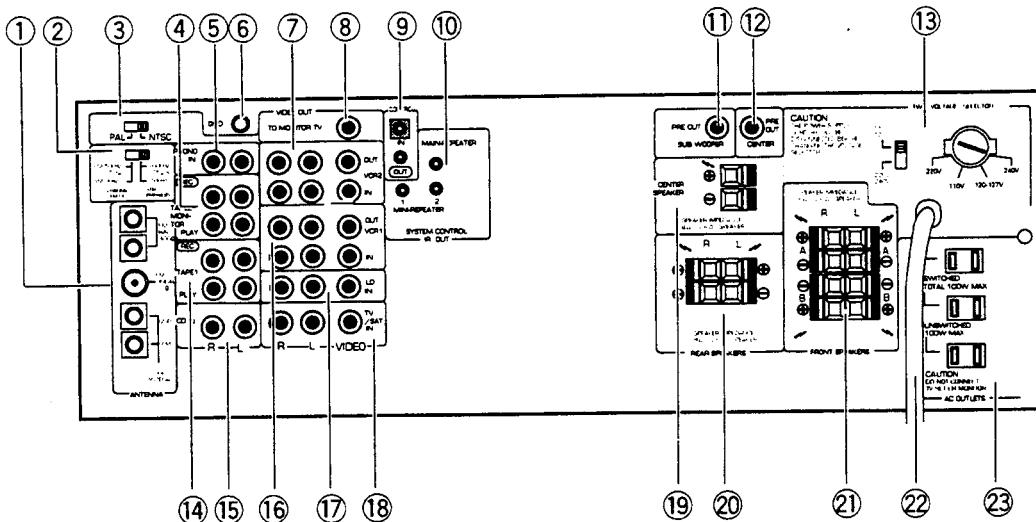
### Ⓖ TAPE 2 indicator

Lights up when the input selector is set to TAPE 2 MONITOR ON.

### Ⓗ CHARACTER display

Manufactured under license from Dolby Laboratories Licensing Corporation.  
Additionally licensed under Canadian patent number 1,037,877. "Dolby,"  
the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories  
Licensing Corporation.

Illustration shows Multi-voltage model.



### ① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

### ② CHANNEL STEP switch

(Multi-voltage model only)

### ③ PAL/NTSC switch

(Multi-voltage model only)

Switch to match the color system of the TV set you are using.

### ④ TAPE 2 MONITOR jacks

Connect to audio components such as a second cassette deck or a graphic equalizer.

### ⑤ PHONO input jacks

Connect to the output cables from a turntable.

### ⑥ GND terminal

Connect the turntable ground lead to this terminal.

### ⑦ VCR 2 jacks

#### [VIDEO OUT]

Connect to the VCR 2 VIDEO INPUT jack.

#### [AUDIO OUT (L, R)]

Connect to the VCR 2 AUDIO INPUT jacks.

#### [VIDEO IN]

Connect to the VCR 2 VIDEO OUTPUT jack.

#### [AUDIO IN (L, R)]

Connect to the VCR 2 AUDIO OUTPUT jacks.

### ⑧ VIDEO OUT (TO MONITOR TV) jack

Connect to a monitor TV or to TV sets with video input terminals to watch program materials from a VCR or LD player connected to this unit.

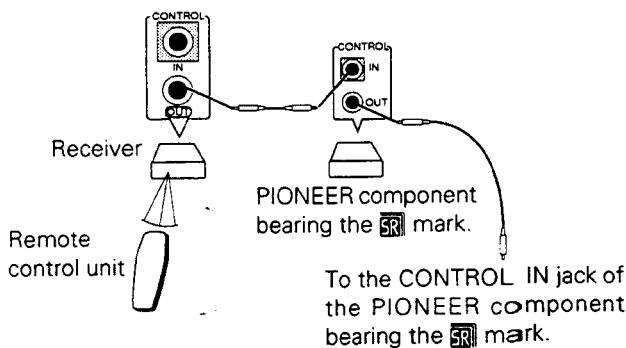
### ⑨ CONTROL IN/OUT jacks

**IN** : Connect this jack to other Pioneer components when using those components to control this unit.

**OUT** : Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

#### NOTE :

- If there is a plug in this unit's CONTROL IN jack, GUI operation is not possible.
- The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected. In this case, connect a component featuring intelligent system control to the IN jack.



### ⑩ SYSTEM CONTROL IR OUT jacks

To operate other components with this unit's remote control or with GUI, connect the supplied repeater.

#### MINI-REPEATER 1, 2

: Connect the supplied Mini-Repeater.

#### MAIN-REPEATER

: Connect the supplied Main-Repeater.

**⑪ SUB WOOFER PRE OUT jack**

If you want to boost the low frequencies, connect to a subwoofer power amplifier.

**⑫ CENTER PRE OUT jack**

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

**⑬ TWO VOLTAGE SELECTORS switches  
(Multi-voltage model only)****⑭ TAPE 1 jacks**

Connect to the first cassette deck.

**⑮ CD input jacks**

Connect to the output jacks of a compact disc player.

**⑯ VCR 1 jacks****[VIDEO OUT]**

Connect to the VCR 1 VIDEO INPUT jack.

**[AUDIO OUT (L, R)]**

Connect to the VCR 1 AUDIO INPUT jacks.

**[VIDEO IN]**

Connect to the VCR 1 VIDEO OUTPUT jack.

**[AUDIO IN (L, R)]**

Connect to the VCR 1 AUDIO OUTPUT jacks.

**⑰ LD input jacks**

Connect to an LD player's output jacks (audio, video).

**⑱ TV/SAT (Satellite) jacks (input)**

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

**⑲ CENTER SPEAKER terminals**

Connect the center speaker to these terminals.

**NOTE :**

*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use a center speaker with an impedance of 8 Ω to 16 Ω.*

**⑳ REAR SPEAKERS terminals**

Connect the rear speakers to these terminals.

**NOTE :**

- Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use rear speakers with an impedance of 8 Ω to 16 Ω.*
- Be sure to connect two speakers (L, R). There will be no sound if only one speaker is connected.*

**㉑ FRONT SPEAKERS terminals**

**A** :Connect to the first set of speakers.

**B** :Connect to the second set of speakers.

**NOTE:**

*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use front speakers with an impedance of 8 Ω to 16 Ω.*

**㉒ Power cord****㉓ AC OUTLETS**

(U.S. and Canadian models)

**[SWITCHED TOTAL 100 W (0.8 A) MAX]**

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

**[UNSWITCHED 100 W (0.8 A) MAX]**

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

(Multi-voltage model)

**[SWITCHED TOTAL 100 W MAX]**

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

**[UNSWITCHED 100 W MAX]**

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

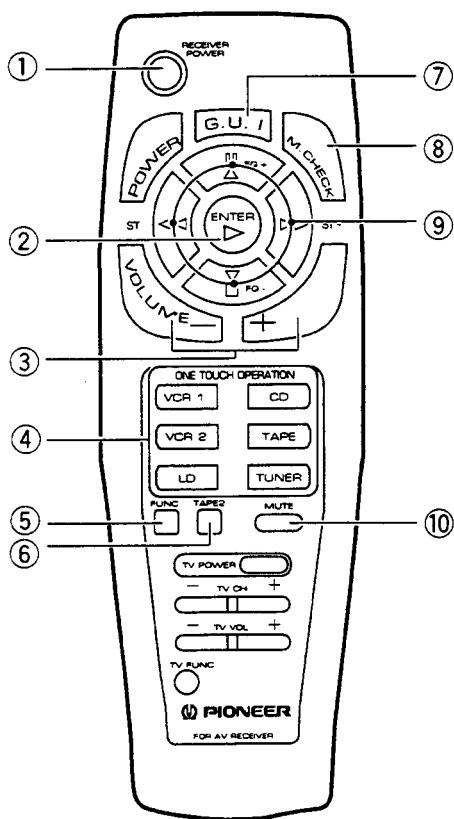
**NOTE:**

- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to this AC OUTLETS in order to avoid overheating and fire risk. This can cause the receiver to malfunction.*

**CAUTION:**

**DO NOT CONNECT MONITOR OR TV SET.**

## RECEIVER CONTROL BUTTONS



## ① RECEIVER POWER button

Switches the receiver power between ON and STANDBY.

## ② ENTER button

When GUI is ON, press to execute an operation selected with the Select/Adjust buttons.

## ③ VOLUME +, - buttons

Adjusts the overall volume.

## ④ ONE TOUCH OPERATION buttons

## VCR 1/2, CD, LD, TAPE :

Pressing these buttons automatically calls up "ONE TOUCH OPERATION SET UP" settings, made using GUI. (P. 36)

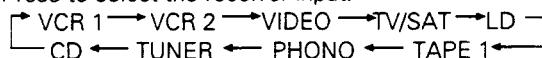
## TUNER :

This switches power to the TUNER ON, and starts reception of the last memorized station.

Also, if power to this unit is OFF, it is switched ON, and operation automatically switches to the selected function. When you press any of the ONE TOUCH OPERATION buttons, the GUI MODE becomes off.

## ⑤ FUNC. (function) button

Press to select the receiver input.



## ⑥ TAPE 2 (TAPE 2 MONITOR) button

Switches TAPE 2 MONITOR on/off.

## ⑦ G.U.I. button

Switches GUI MODE on and off.

When the GUI mode is ON, the Select/Adjust button ⑨ (△, ▷, ▽, ▲) lights.

## ⑧ M.CHECK (Mode check) button

Indicates whether the GUI MODE is on or off.

When it is on, △, ▷, ▽, ▲ light. When it is off, a ④ ONE TOUCH OPERATION button lights to indicate the current function.

If you press the button again while it is lit, remote control functions change. When the remote control is in the GUI mode, the ⑨ Select/Adjust buttons (△, ▷, ▽, ▲) light.

## ⑨ Select/Adjust buttons (△, ▷, ▽, ▲)

When the GUI mode is ON, △, ▷, ▽, and ▲ light.

When using the GUI function with the on-screen display, use for such operations as selection and adjustments (by moving the cursor).

When the GUI mode is OFF, use to operate other components.

## ⑩ MUTE button

Used to temporarily mute the sound. When it's in the on position, the "MUTING" indicator lights. The volume is restored when pressed again.

## OPERATING OTHER COMPONENTS

## REMOTE CONTROLLING OF ANY OTHER OF YOUR AUDIO-VISUAL COMPONENTS VIA THIS UNIT REQUIRES:

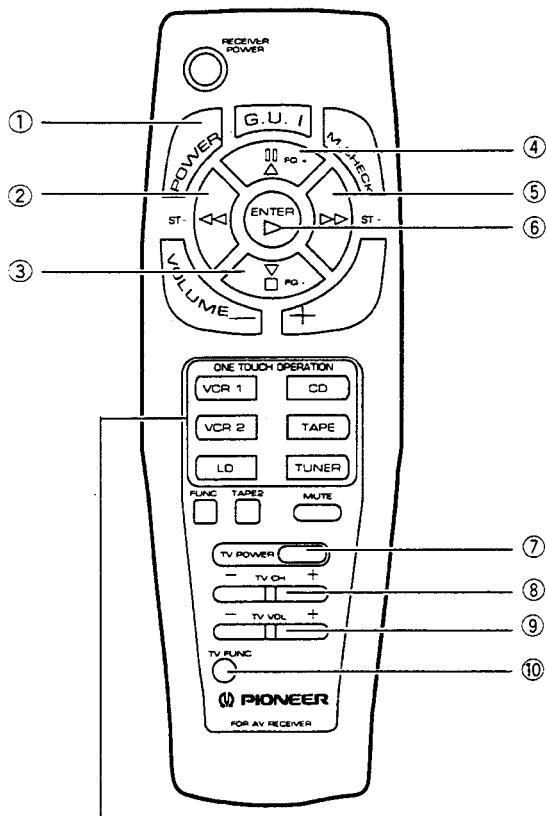
All components must be remote controllable (have a sensor window on the front panel) to receive a direct command from this unit, upon successful learning of those commands by this programmable unit.

When operating components other than the receiver:

1. Press the ONE TOUCH OPERATION button for the component you want to operate.
2. Press the operation button.

## NOTE:

Components that could not originally be operated by remote control cannot be controlled by this unit's remote control.



ONE TOUCH OPERATION buttons switch between each of the functions.

## TV operation

- ⑦ **TV POWER button:**  
Switches the power of the TV ON/OFF.
- ⑧ **TV CH (channel) +, - button:**  
Switches TV channels in order.
- ⑨ **TV VOL (volume) +, - button:**  
Raises (+) and lowers (-) the volume.
- ⑩ **TV FUNC (function) button:**  
Used to change the TV FUNCTION.  
TV FUNC button cannot be used with some PIONEER TVs.

## VCR 1/VCR 2 operation

- ① **POWER button:**  
Switches VCR power ON/OFF.
- ② **◀ (REW) button:**  
Rewinds the tape and arrows picture search.
- ③ **■ (STOP) button:**  
Stops the tape transport.
- ④ **II (PAUSE/STILL) button:**  
Sets pause and still picture.
- ⑤ **▶ (FF) button:**  
Rapidly advances the tape and arrows picture search.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

## LD player operation

- ① **POWER button:**  
Switches LD player power ON/OFF.
- ② **◀ (SCAN/CHAPTER SEARCH) button:**  
Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter. Continue pressing to rewind.
- ③ **■ (STOP) button:**  
Playback is stopped when pressed once.  
With some LD players, pressing the button twice may open the disc tray.
- ④ **II (PAUSE) button:**  
Video and audio are stopped and playback is paused.
- ⑤ **▶ (SCAN/CHAPTER SEARCH) button:**  
Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter. Continue pressing for fast forward.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

## CD player operation

- ① **POWER button:**  
Switches CD player power ON/OFF.
- ② **◀ (MANUAL/TRACK SEARCH) button:**  
Pressing quickly once takes you to the start of the track currently playing. Each time you press it, you move back to the start of the previous track. Continue pressing for reverse search.  
Pressing the **◀** button while pressing the **■** button takes you to the previous disc. (With a file-type CD player)
- ③ **■ (STOP) button:**  
Stops playback.
- ④ **II (PAUSE) button:**  
Pauses playback.
- ⑤ **▶ (MANUAL/TRACK SEARCH) button:**  
Pressing quickly once takes you to the start of the next track. Each time you press it, you move ahead to the start of the next track. Continue pressing for forward search.  
Pressing the **▶** button while pressing the **■** button takes you to the next disc. (With a file-type CD player)
- ⑥ **▶ (PLAY) button:**  
Selects playback.

**TAPE operation**

- ① **POWER button:**  
Switches cassette deck power ON/OFF.
- ② **◀◀ (FF) button:**  
Rapidly advances the tape in the direction of the arrows.
- ③ **■ (STOP) button:**  
Stops the tape transport.
- ④ **II (PAUSE/STILL) button:**  
Temporarily stops tape transport. Press again to resume tape transport.
- ⑤ **▶▶ (FF) button:**  
Rapidly advances the tape in the direction of the arrows.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

**Tuner operation**

- ② **ST — (Station Down) button:**  
Used for recalling memorized stations.
- ③ **FQ — (Frequency Down) button:**  
Shifts the frequency down.
- ④ **FQ + (Frequency Up) button:**  
Shifts the frequency up.
- ⑤ **ST + (Station Up) button:**  
Used for recalling memorized stations.
- ⑥ **Band button:**  
Switches the FM and AM bands in turn.

**Auto tuning:**

Press FQ + (up) or — (down) button until the frequency starts to change, then release it. The tuner will automatically search for a broadcasting station and stops when one is found, and the TUNED indicator lights up. To search for another station, press again.

**Manual tuning:**

Press FQ + (up) or — (down) button and release quickly. The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.

- If you keep the FQ (up/down) button depressed after the frequency has began to change, the reception frequency changes continuously, and stops when the button is released.

**NOTE:**

*When AUTO TUNING is in use, reception may not be possible over long distances or when signals are weak. At these times MANUAL TUNING is recommended.*

## 13. SPECIFICATIONS (VSX-D704S)

### Amplifier Section

**Continuous average power output of 165 watts\* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.05 %\*\* total harmonic distortion (front).**

[Multi-voltage model]

Continuous Power Output (DIN)

Front (1kHz, T.H.D. 1%, 8 Ω) ..... 180 W+ 180 W

Continuous Power Output

Front ..... 130 W + 130 W (1kHz, 0.8%, 8 Ω)

Center ..... 130 W (1kHz, 0.8%, 8 Ω)

Rear ..... 130W (1kHz, 0.8%, 8 Ω)

Dynamic Power (2 Ω/4 Ω) ..... 450 W/330 W

Input (Sensitivity/Impedance)

PHONO MM ..... 2.8 mV/47 kΩ

CD, TAPE 1, TAPE 2, LD,

VCR 1, VCR 2, VIDEO, TV/SAT ..... 200 mV/47 kΩ

Phono Overload Level (T.H.D. 0.1%, 1 kHz)

PHONO MM ..... 100 mV

Frequency Response

PHONO MM ..... 20 Hz to 20,000 Hz ± 0.3 dB

CD, TAPE 1, TAPE 2, LD, VCR 1,

VCR 2, VIDEO, TV/SAT ..... 5 Hz to 100,000 Hz ±<sup>0</sup>3 dB

Output (Level/Impedance)

TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 kΩ

VCR 1 OUT, VCR 2 OUT ..... 200 mV/2.2 kΩ

Tone Control

BASS ..... ± 8 dB (150 Hz)

TREBLE ..... ± 8 dB (10 kHz)

SUPER BASS ..... +8 dB (80 Hz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM ..... 76 dB

CD, TAPE 1, TAPE 2, LD,

VCR 1, VCR 2, VIDEO, TV/SAT ..... 97 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]

PHONO MM ..... 77 dB

CD, TAPE 1, TAPE 2, LD,

VCR 1, VCR 2, VIDEO, TV/SAT ..... 80 dB

\* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

\*\* Measured by Audio Spectrum Analyzer.

### VIDEO Section

Input (Sensitivity/Impedance)

VCR 1, VCR 2, LD, VIDEO ..... 1 Vp-p/75 Ω

Output (Level/Impedance)

VCR 1, VCR 2, MONITOR ..... 1 Vp-p/75 Ω

Frequency Response

VCR 1, VCR 2,

LD, VIDEO → MONITOR ..... 5 Hz to 10 MHz ±<sup>0</sup>3 dB

Signal-to-Noise Ratio ..... 55 dB

Cross Talk ..... 55 dB

### FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz

Usable Sensitivity ..... Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)

50 dB Quieting Sensitivity ..... Mono: 16.8 dBf

Stereo: 38.6 dBf

Signal-to-Noise Ratio ..... Mono: 80 dB (at 65 dBf)

Stereo: 76 dB (at 85 dBf)

Distortion ..... Stereo: 0.3 % (1 kHz)

Alternate Channel Selectivity ..... 65 dB (400 kHz)

Stereo Separation ..... 45 dB (1 kHz)

Frequency Response ..... 30 Hz to 15 kHz (±<sup>0.5</sup> dB)

Antenna Input ..... 300 Ω balanced

75 Ω unbalanced

### AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz (9 kHz step)

530 kHz to 1,700 kHz (10 kHz step)

Sensitivity (IHF, Loop antenna) ..... 300 μV/m

Selectivity ..... 25 dB

Signal-to-Noise Ratio ..... 50 dB

Antenna ..... Loop antenna

### Miscellaneous

Power Requirements

U.S. and Canadian models ..... AC 120 V, 60 Hz

Multi-voltage model ..... AC 110 V/120-127 V/220 V/240 V (Switchable), 50/60 Hz

Power Consumption

U.S. and Canadian models ..... 375 W, 340 VA

Multi-voltage model ..... 1070 W

In Standby Condition ..... 5 W

AC Outlets

U.S. and Canadian models

SWITCHED × 2 ..... TOTAL 100 W (0.8 A) MAX

UNSWITCHED × 1 ..... 100 W (0.8 A) MAX

Multi-voltage model

SWITCHED × 2 ..... TOTAL 100 W MAX

UNSWITCHED × 1 ..... 100 W MAX

Dimensions ..... 420 (W) × 162 (H) × 414(D) mm

16-9/16 (W) × 6-3/8 (H) × 16-5/16 (D) in

Weight (without package)

U.S. and Canadian models ..... 12.6 kg (27 lb 12 oz)

Multi-voltage model ..... 12.8 kg (28 lb 4 oz)

### Furnished Parts

FM T-type Antenna ..... 1

AM Loop Antenna ..... 1

Dry Cell Batteries

[size "AA" (IEC R6/UM-3)] ..... 2

Remote Control Unit ..... 1

Mini-Repeater ..... 1

Main-Repeater ..... 1

Operating Instructions ..... 1

### NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.